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FIGURE 528

MKFISTSLLLMLLVSSLSPVQGVLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNGCPRKEIIVWKKKSIV
CVDPQAEWIQRMMEVLRKRSSSTLPVPVFKRKIP

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FIGURE 529

TAAGTGAAGGAGGAGCAATTGATTAAATAGCTCGGCGAGGGGACTCACTGACTGTTATAATAACACTACACCAGCA
ACTCCTGGCTTCCCAGCAGCCGGAACACAGACAGGAGAGAGTCAGTGGCAAATAGACATTTTCTTATTTCTTAA
AAAACAGCAACTTGTGTTGCTACTTTTATTTCTGTTGATTTTTTTTCTTGGTGTGTGTGGTGGTGTGTTTTAAGT
GTGGAGGGCAAAGGAGATACCATCCCAGGCTCAGTCCAACCCCTCTCCAAAACGGCTTTTCTGACACTCCAGGT
AGCGAGGGAGTTGGGTCTCCAGGTGTGCGAGGAGCAAAATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAA
CTCTCAGTGGTTTTGTGACCAGCTGTCTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTGGTGACCA
TCTTTCCCAATGCCGAAGTGGGAGGCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACATTG
ACATGACTGGAGAGAAGAGGTGCTTGGATCTCCATATCCCAGCAGCTTTGCTCCCGTCTCTGCACTAGAAACC
AGACCTTCACTTACATGGGCAAGTTCTCCATTGACCCTCAGTACCCTGGTGGCAGCTGCTACCCAGAAGGCATAA
TCAATATTGTGAGTGCAGGCATCTTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCT
CTGCCTCCCCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGACCATGTCCAGACCCAGCCTGACCTGGACC
ACCTGTACTCTCCGCCACCGCCTCTCTCTTATTCTGGCTGTGACGAGACCTCTACCAGGACCCCTTCTGCGT
TCCTGTACGAGCCACCACCTCCACCTCTCTCTCTGGCCTACCCACCACCTCTCTCTATCCATCCCCCAAGC
CAGCCACGGACCCAGGTCTCTTCCCAATGATCCAGACTATCTGGATTCTTTCCATCTCAGTGGCAGAGAGACC
TACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCCAGTGGACACCCCTGCGGTGCCCCCTCCACTCA
CTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGTGCGGTGACCGGACCAGGGGCCAGTGGAG
GCAGCGAGGGACCCCGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCGCCGCCGCCCTATAACCCAC
ACCACCTGCCACTGCGGCCCATCTGAGGCCTCGCAAGTACCCCAACAGACCCAGCAAGACGCCGGTGCACGAGA
GGCCCTACCCGTGCCAGCAGAAGGCTGCGACCGCGGTTCTCCCGCTCTGACGAGCTGACACGGCACATCCGAA
TCCACACTGGGCATAAGCCCTTCCAGTGTGCGATCTGCATGCGCAACTTCAGCCGAGTGACCACCTCACCACCC
ATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGTGACTACTGTGGCCGAAAGTTTGCCCGAGTGATGAGA
GGAAGCGCCACACCAAGATCCACCTGAGACAGAAAGAGCGGAAAGCAGTGCCCTCTGCATCGGTGCCAGCCC
CCTCTACAGCTCTGTCTGTGGGGCGTGCAGCTGGGGGTACCTGTGACGAGTAACAGCAGCAGTCTTGGCG
GAGGGCCGCTCGCCCTTGTCTCTCGGACCCGGACACCTTGAGATGAGACTCAGGCTGATACACCAGCTCCCA
AAGGTCCCGGAGGCCCTTTGTCCACTGGAGCTGCACAACAAACACTACCACCTTTCTGTCCCTCTCTCCCTTT
GTTGGGCAAAGGGCTTTGGTGGAGCTAGCACTGCCCCCTTTCCACCTAGAAGCAGGTCTTCTCTAAAACCTTAGCC
CATTCTAGTCTCTCTTAGGTGAGTTGACTATCAACCAAGGCAAAGGGGAGGCTCAGAAGGAGGTGGTGTGGGGA
TCCCTGCGCAAAGAGGGCTGAGGTCTGACCCTGCTTTAAAGGGTTGTTTACTAGGTTTTGCTACCCCACTTCCC
CTTATTTTGACCCATCACAGGTTTTTGACCCTGGATGTGAGAGTTGATCTAAGACGTTTTCTACAATAGGTTGGG
AGATGCTGATCCCTTCAAGTGGGACAGCAAAAAGACAAGCAAAACTGATGTGCACTTTATGGCTTGGGACTGAT
TTGGGGGACATTGTACAGTGAGTGAAGTATAGCCTTTATGCCACACTCTGTGGCCCTAAAATGGTGAATCAGAGC
ATATCTAGTTGTCTCAACCTTGAAGCAATATGTATTATATACTCAGAGAACAGAAGTGCAATGTGATGGGAGGA
ACGTAGCAATATCTGCTCCTTTTCGAGTTGTTTGAGAAATGTAGGCTATTTTTTTCAGTGTATATCCACTCAGATT
TTGTGTATTTTTGTATGTACCCACACTGTTCTCTAAATCTGAATCTTTGGGAAAAAATGTAAAGCATTATGATC
TCAGAGGTAACTTATTTAAGGGGATGTACATATTCTCTGAACTAGGATGCATGCAATTGTGTTGGAAGTGTG
CTTGGTGCCTTGTGTGATGTAGACAAATGTTACAAGGCTGCATGTAAATGGGTGCTTATTATGGAGAAAAA
ATCACTCCCTGAGTTTAGTATGGCTGTATATTTATGCCTATTAATATTGGAATTTTTTTAGAAAGTATATTTT
TGATGCTTTGTTTTGTGACTTAAAGTGTTACCTTTGTAGTCAAATTCAGATAAGAATGTACATAATGTTACC
GGAGCTGATTTGTTTTGGTCATTAGCTCTTAATAGTTGTGAAAAATAAATCTATTCTAACGCAAAACCACTAACT
GAAGTTCAGATATAATGGATGGTTTTGTGACTATAGTGTAATAAATACTTTTCAACAAT

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FIGURE 530

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDQMNGVAGDGMINIDMTGEKRSLDLPY
PSSFAPVSAPRNQTFITYMGKFSIDPQYPGASCYPEGIINIVSAGILQGVTSASTTASSSVTSASPNPLATGPLG
VCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATTSTSSSLAYPPPPSYSPKPADPGLFPMIPD
YPGFFPSQCQRDLHGTAGPDRKPFPCPLDTRLVPPPLTFLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSA
AAAAAAAAAYNPHHLPLRPILRPRKYFNRPSKTPVHERPYPCPAEGCDRRFSRSDLTRHIRIHTGHKPFQCRIC
MRNFSRSDHLTTTHIRHTGEKPFACDYCGRKFARSDEKRRHTKIHRLRQKERKSSAPSASVPAPSTASCSSGGVQPG
GTLCSNSSLGGGPLAPCSSRTRTP

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FIGURE 531

GCCCAGGTGACTGACTAATCCGCCGCTTCAGGAGACAGAATTGGCCAAGGCCTGAAGGCCCCGGAGTGCACCAG
CGGCATGTACAAAGAGACCGTCTACTCCGCCCTTCAATCTGCTCATGCATTACCCACCCCCCTCGGGAGCAGGGCA
GCACCCCCAGCCGAGCCCCCGCTGCACAAGGCCAATCAGCCCCCCCACGGTGTCCCCAACTCTCTCTCTACGA
ACATTTCAACAGCCACATCCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGGCCTCTGCAGAC
CCCTGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCCAGCTGTGAGCTGGTTTAC
CCACCCATCCTTGATGCTAGGTTCTGGTGTACCTGGTCACCCAGCAGCCATCCCCACCCGGCCATTGTGCCCC
CTCAGGGAAGCAGGAGCTGCAGCCCTTCGACCGCAACCTGAAGACACAAGCAGAGTCCAAGGCAGAGAAGGAGGC
CAAGAAGCCAACCATCAAGAAGCCCCCTCAATGCCCTTCATGTGTACATGAAGGAGATGAGAGCCAAGGTCATTGC
AGAGTGCACACTTAAGGAGAGCGCTGCCATCAACCAGATCCTGGGCCGAGGTGGCAGCGCTGTGCGGAGAAGA
GCAGGCCAAGTACTATGAGCTGGCCCGCAAGGAGAGGCAGCTGCACATGCAGCTATACCCAGGCTGGTCAGCGCG
GGACAACCTACGGGAAGAAGAAGAGGCGGTGAGGGAAAAGCACCAAGAATCCACCACAGACCTGGCTCGCCTAA
GAAATGCCGTGCTCGCTTTGGCTCAACCAGCAGACGGATTGGTGTGGTCCGTGCAGATAAATCTCTTCACTATT
CCTAGGAGGAAAAAGAAATGCATTCCGTACTTACCCGGAGAAGGCCGCTGCCCCAGCCCCGTCTCTCCGATGAC
AGTGCTCTAGGCTGCCCCGGGTCCCCAGCTCCCCAGGACTCACCTCATACCATCTGCTGCCCCGCTTCCCCACA
GAACTGCTTACTAGCCCTGCGGAGCGGCACCTACATCCCCAGGTCTCTCCACTGCTCTCAGCTCCCAACCCAG
GGCCCCCACAGGCCCCCGCAGCACCTGCAGAGCACACAGGTACAGCAACAGGAATCTCAGAGACAGGTGGCCT
AGCAGGCACAGGACACCTGGCCGCTCCAGGAGCCTACCCCTGAAAATGACAGAGACCCAGATCTCATGGAAC
TGGCAGGGGTCTGTAACTGTCATCTCAGGGTCCAGACCCTGAAGATTTAGAGGCTGCAGAACTCTGCGCTGAA
CCTGGGGTCACTGATTCAAACTGCTCCAAGTGGTGGGAATCAGATCTGTCTTGATGTGTATCTAATTAAGGGAA
TCCCTTGTACCTATGACTCCGTGATCTATTCTTGTACCATCTGTCTTGCCAGCCAGAAGCCTCTGCTCCCTA
GCTTTTCTGCTATAGGTGAGAGATGGGCTGAAGTGCAGCTAGCTACCTTCTCTACCCATCTCCCCATCCCCAC
TGCCACACCTCCCCATTAGACACTTCATGGACCAAGAATGAGCTGGTTTGTCAAACAACATGTGAGCATGGTC
ACAAGCACAAAGCTCAAGATGACAGCTCTTCTAAGGAAATGGAGAAGCTCTGTTTATAAAAACAAAAACAAACC
AGCTGCTACTCATAAGTTGGACAGAGGAAGCCCTTACTATGATCTCAGGAGCTTGCAAGAAGCAGGAAGGGGA
ATGGAATAGGTTAAGTTTAGGCCATCAACCTAAGCAACAGAAATAATCTGACACTACCTTATCAGGCAAAATTGG
GGAGGGGAGGGTGTATCTAGCTCTAGTTCAAATTATTTGGAAGTGTCCCTGAGAAACCCACCAGCCTAAGAAGC
TCGGCCCCAGGCTTGTCACTAGCAGCTGCAGTCAACAGTTCAAAGAAGTCATGGCCCAAATCCAGTGTGCACCC
CTCCCCATTACAGAGCCTTTTTTCACAATTCCATTTCCAGTTCATCTATGGCAGTCCAGCCAGCTTCTGGGCAGC
TTGAGAGGGGCAAAACCAAAACCTCATGACAGCCAGAGCCTGTCTTTCAGCATTCAGTCGCCTGGGAAGCTCCAGT
TTCCCCATGGGGCTGCGGGACAGAGGACCATTACAAGTAGATCAAGGAGCCAGAAAACCTCCAGTAGTGGACAA
CAGGTTTTACCATAGCCTACGTTAACCCATTTTGGAGCCAAGCTTCAACCCTCAGCCTTGAAAAACAAGTCTTT
AATTTAATTTTTGTTTTTGCCTAAATCCAAAGAAAAAGGGCTGCCGGGCCAGGCGCGGTCTGACCGCTGTAAT
CCCAGCACTTTGGCAGGCCGAGGCAGGTGGATCACCTGACGTGAGTAGTTTGAGACCAGCCTGGCCAAACATGGTG
AAACCCTGTATCTACTAAAAATACAAAAATTAGCCGGACGTGGTGGTGGCGCATGTAATCCAGCTACTCGGGA
GGCTGAGGCGGAAGAATCACTTGAACCCGGGAGGCGGAGGTTCCAGTGAGCCGAGATGGCGCTATTGCACTCCAG
TCTGGGTAACAGGGGAGACTGCATCTCAAAAAAAAAAAAAAAAAAGGGCTGTCCATGTATTACACACCCCTC
AAAAAAGCCTTTAGTTCTTACTTTAGCCACTGGTTCTCAGAATCCAAGATCACATATTCTAGTGTAACTG
CAAGAAGTCTTGAGAAAAAGATTATTGTAGTGTCAAAATATTTTGTATTGTTAATGCATCATAGAAAAAC
TTTTAAACATGAGAATAAAGATACTTTTACTGGGTTTGTTTTTCAAAGCCTGAAAAAA

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FIGURE 532

MYKETVYSAFNLLMHYPSPGAGQHPQPPLHKNQPPHGVFQLSLYEHFNSPHPTPAPADISQKQVHRPLQTP
DLSGFYSLTSGSMGQLPHTVSWFTHPSLMLGSGVPGHPAAIPHPAIVPPSGKQELQPFDRNLKTAESKAEKEAK
KPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARD
NYGKKKRRSREKHQESTTDPGSPKKCRARFGLNQOTDWCGPCR

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FIGURE 533A

ATGAACCTCTGAAAAC TGCCGGCATCTGAGGTTTCTCCAAGGCCCTCTGAAGTGCAGCCCATATGAAGGTCTT
GGCGGCAGGAGTTGTGCCCCTGCTGTTGGTTCTGCACTGGAAACATGGGGCGGGGAGCCCCCTCCCCATCACCCC
TGTC AACGCCACCTGTGCCATACGCCACCCATGTCAACAACCTCATGAACCAGATCAGGAGCCAACTGGCACA
GCTCAATGGCAGTGCCAATGCCCTCTTTATTCTCTATTACACAGCCCAGGGGGAGCCGTTCCCCAACAACTGGA
CAAGCTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGA
GCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATCCTCAACCCAG
TGCCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGAGGCCTCCTTAGCAACGTGCTGTGCCG
CCTGTGCAGCAAGTACCACGTGGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCA
GAAGAAGAAGCTGGGCTGTCAACTCCTGGGGAAGTATAAGCAGATCATCGCCGTGTGGCCCAGGCCCTTCTAGCA
GGAGGTCTTGAAGTGTGCTGTGAACCGAGGGATCTCAGGAGTTGGGTCCAGATGTGGGGGCTGTCCAAGGGTGG
CTGGGGCCCAGGCCATCGCTAAACCCAAATGGGGCTGTGGCAGACCCGAGGGTGCCTGGCCAGTCCACTCCA
CTCTGGGCTGGGCTGTGATGAAGCTGAGCAGAGTGGAACTTCCATAGGGAGGGAGCTAGAAGAAGGTGCCCTT
CCTCTGGGAGATTGTGGACTGGGGAGCGTGGGCTGGACTTCTGCCCTCTACTTGTCCCTTTGGCCCTTGTCTACT
TTGTGCAGTGAACAACTACACAAGTCATCTACAAGAGCCCTGACCACAGGGTGAGACAGCAGGGCCAGGGGAG
TGGACCAGCCCCAGCAAATTATCACCATCTGTGCCCTTGTGCTGCCCTTAGGTTGGGACTTAGGTTGGCCAGAGG
GGCTAGGATCCCAAAGGACTCCTTGTCCCCTAGAAGTTTGATGAGTGAAGATAGAGAGGGGCTCTGGGATGGA
AGGCTGTCTTCTTTGAGGATGATCAGAGAACTTGGGCATAGGAACAATCTGGCAGAAGTTTCCAGAAGGAGGTC
ACTTGGCATTAGGCTCTTGGGGAGGCAGAGAAGCCACCTTCAGGCCTGGGAAGGAAGACACTGGGAGGAGGAGA
GGCCTGGAAGCTTTGGTAGGTTCTTCGTTCTCTTCCCGTGATCTTCCCTGCAGCCTGGGATGGCCAGGGTCTG
ATGGCTGGACCTGCAGCAGGGGTTTGTGGAGGTGGGTAGGGCAGGGGCAGGTTGCTAAGTCAGGTGCAGAGGTTT
TGAGGGACCCAGGCTCTTCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACAT
CTGAGGCCCTGGGAGGCTTGTGTAGGTACACAGAGGTACTTGAGGGGGACTGGAGGCCGTCTCTGGTCCCCAGG
GCAAGGGAACAGCAGAACTTAGGGTCAGGGTCTCAGGGAACCCCTGAGCTCCAAGCGTGCTGTGCGTCTGACCTGG
CATGATTCTATTTATTAIGATATCCTATTTATATTAACCTTATTGGTGCTTTTCAAGTGGCCAAGTTAATTCCTT
TCCCTGGTCCCTACTCAACAAAATATGATGATGGCTCCCGACACAAGCGCCAGGGCCAGGGCTTAGCAGGGCCTG
GTCTGGAAGTCGACAAATGTTACAAGTGAATAAGCTTACGGGTGAAGCTCAGAGAAGGGTTCGGATCTGAGAGAAT
GGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCATCCCTACTGTGACTTGCTTTAGCGTGTACAGGG
TCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCGGGGTGCCCTTCTGTCTTGCTTCCAGGGGGCTGGTTCA
CACTGTTCTTGGGCGCCCCAGCATTGTGTTGTGAGGCGCACTGTTCTTGGCAGATATTGTGCCCCCTGGAGCAGT
GGGCAAGACAGTCCCTTGTGGCCACCCCTGTCTTGTCTGTGTCCTTCTGCTGCTGAAATAGCGCCCTGGA
ACAACCTGCCCCTGACCCAGCATGTCTCCGACACAGCAGGGAAGCTCCTCCTGTGGCCCGGACACCCATAGACG
GTGCGGGGGGCTGGCTGGGCCAGACCCAGGAAGGTGGGGTAGACTGGGGGGATCAGCTGCCCATTTGTCTCCAA
GAGGAGGAGAGGGAGGCTGCAGACGCTGGGACTCAGACCAGGAAGCTGTGGGCCCTCCTGCTCCACCCCATCC
CACTCCACCCATGTCTGGGCTCCAGGCAGGGAACCCGATCTCTTCTTGTGCTGGGGCCAGGCGAGTGGAGA
AACGCCCTCCAGTCTGAGAGCAGGGGAGGGAAGGAGGCAGCAGAGTTGGGGCAGCTGCTCAGAGCAGTGTCTGG
CTTCTCTCAAACCCCTGAGCGGGCTGCCGGCTCCAAGTTCCTCCGACAAGATGATGGTACTAATTATGGTACTT
TTCACTCACTTTGCACCTTTCCCTGTGCTCTCTAAGCACTTTACCTGGATGGCGCGTGGGCAGTGTGCAGGCAG
GTCTGAGGCCTGGGGTTGGGGTGGAGGGTGGCGCCGGAGTTGTCCATCTGTCCATCCCAACAGCAAGACGAGG
ATGTGGCTGTTGAGATGTGGGCCACACTACCCCTTGTCAGGATGCAGGGACTGCCCTCTCTCTCTGCTTCATC
CGGCTTAGCTTGGGGCTGGCTGCATTCCCCCAGGATGGGCTTCGAGAAAGACAACTTGTCTGGAACACAGAGTT
GCTGATTCCACCCGGGGGGCCCGGCTGACTCGCCCATCACCTCATCTCCCTGTGGACTTGGGAGCTCTGTGCCAG
GCCACCTTGGCGCCCTGGCTCTGAGTCGCTCTCCACCCAGCCTGGACTTGGCCCATGGGACCCATCCTCAGT
GCTCCCTCCAGATCCCGTCCGGCAGCTTGGCGTCCACCCTGCACAGCATCACTGAATCACAGAGCCTTTGCGTGA
AACAGCTCTGCCAGGCCGGGAGCTGGGTTTCTCTTCCCTTTTATCTGCTGGTGTGGACCACCTGGGCTGGC
CGGAGGAAGAGAGAGTTTACCAAGAGAGATGTCTCCGGGCCCTTATTATTATTTAAACATTTTTTTAAAGCA
CTGCTAGTTTACTTGTCTCTCTCTCCCATCGTCCCATCGTCTCTCTGTCTGCTGACTTGGGGCACTTCCACCT
GACCCAGCCAGTCCAGCTCTGCCTTGGCGGCTCTCCAGAGTAGACATAGTGTGTGGGGTTGGAGCTCTGGCACCC
GGGGAGGTAGCATTTCCCTGCAGATGGTACAGATGTTCCCTGCCTTAGAGTCATCTCTAGTTCCCCACCTCAATCC

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FIGURE 533B

CGGCATCCAGCCTTCAGTCCCGCCACGTGCTAGCTCCGTGGGCCCACCGTGCGGCCTTAGAGGTTTCCCTCCTT
CCTTTCCACTGAAAAGCACATGGCCTTGGGTGACAAATTCCTCTTTGATGAATGTACCCTGTGGGGATGTTTCAT
ACTGACAGATTATTTTTATTATTCAATGTCATATTTAAATATTTATTTTTATACCAAATGAATCACTTTTTT
TTTAAGAAAAAAGAGAAATGAATAAAGAATCTACTCTTCG

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FIGURE 534

MKVLAAGVPELLLVLHWKHGAGSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFIIYYTAQGEFPF
NNLDKLCGPNVTDFFPFHANGTEKAKLVELYRIVVYLGTSLGNITRDQKILNPSALSLHSKLNATADILRGLLSN
VLCRLCSKYHVGHVDVTYGPDTSGKDVFQKKKLGCQLLGKYKQIIAVLAQAF

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FIGURE 535

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCTTCAGAGTCACAGGGCCAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTTCTGAGGAAAAGCCTGACAAGGAACCCAAAGCCCCGTTTCTAAAGCCCCTGGAGCAGGCCAA
AGATTGGAACACCAGCCAGCTTGACCACCAGAGACCCGAGGCGAAAGTGGGATTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAGAAGATTCCAAACCTACATTTCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAGATCTTGAACCCAAG
CCCCCTTCCCCAAACCCGCCCTTGGCCAGAAGCCGCCCTTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAATGTGTCTTCATCAAAAGGGTCCCCAGCTCCCCTGGGAGTCAGGTCCAAAGCGGCCCTTTAAAACCA
GCAAGGGAAGACTCAGAAAATAAAGACCATGCAGGGGAGATTTCAAGTTTGCCCTTTCCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCCTCCCTTGTTTACCTTGGGTCCACCTCCACCAAAACCCAACAGACCACCAAT
GTTGACCTGACGAAATTCCACAAAACCTCTTCTGAAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAACCT
TCCCTGCCACCACCTCCACCATCCCATCCGGCCAGCCAACCACCATTGCCAGCATCTCACCCATCACAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTCACGCACTCTGATGGTGCTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAGAGGTTAGAGCTGGAGAAAAGGAACAG
AAAGAGAAAGAAAAGAAAGAAACAAGAAATAAAGAAGAAATTTAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTGTGATGTCAAAGGAGGAAAGAATGAAGTGAAGCTTCAAGCAAGGAGAGCAAAATGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTCATATGGCTATATTAAAAACACT
GCTGTAGAGATTGACTATGATTCTTTGAAACTGAAAAAGACTCTCTTGGTGCCCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGGAAGTGAGGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAACCTAATTTTGGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAGCAGGAAAAA
GAAGAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAAATTAGAGTCCTATATTCAACTAAAGTTACAACCT
TCCATAACTTCTAAAAAGTGGGGAACCAGAGATCTACAGGTAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATATTGCTGATGGCTGCATCTATGACAATGACTAGCACTCAACTTTGGTCATT

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FIGURE 536

MAKYNTGGNPTEDEVSVNSRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSPKPPVAVKPSSEKPD
KEPKPPFLKPTGAGQRFGTASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNQDHDLP
LGPKSGPTPPTSENEQQAFFPKLTGVKGKFMASQDLEPKPLFPKPAFGQKPPLSTENSHEDESPMKNVSSSKGS
PAPLGVRSKSGPLKPAREDSENKDHAGEISSLPFGVVLKPAASRGGLGLSKNGEKKEDRKIDAAKNTFQSKIN
QEELASGTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPPKPNRPPNVDLTKFHKT
SGNSTSKGQTSYSTTSLPPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
LDEEQDSEGETYEDIEASKEREKKREKEKKRLELEKKEQEKEKEKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
KNELSFKQGEQIEIIRITDNPEGKWLGRRTARGSYGYIKTTAVEIDYDSLKLKDSLGLAPSRIEDDQEVYDDVAE
QDDISSHSQSGSGGIFPPPPDDDIYDGIEEDADDGFPAPPKQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KTEEKDLKKLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTSTTSKKWGTRDLQVKPGESLEVIQTDDTKVLCRN
EEGKYGYVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 537A

CGAAGAGGATCCGGAGCAGCTGCTGCCAGCCCGCGGGCACTGAAGTCCTCCCGGCTGCCGCTCGAGTAGCCACGG
GCGCGATCGGGACCAGAAGTCTCCTCCTCCATGATCACTTTGGGAAGCCGGGGGGAAGACTTTGCCCTGCCCTGA
GAGCTGGTCTGCGTTTCCAGGCGCGGCGGCGGAGCAGCTGCAGCAGCCGAGTCCAAATAGGAGCGGGC
ACAGCCAGGGGCGTGTGCGCCCCGCGCGGAGCAGCTCGGGTTCCTCGGAATGTCCCCGGGGCGCCCCGCGCG
CTGACCCCGAAGCCGCTCCGCCCTTCGGCGCCTGCTGCCTCCCTCGGCCAGGCTTGTGTTCGGGACTGTGAGCT
TCCTGGCTCCTGGGCAGTGGGGAAGCCCCCGGGGGCGAGTGACCTCAGCTGGCCACGACCCAGCCCTCCCCCGTG
CGTATCTCGCTTAAGATGGCAGCGGAGTCAGGGGAATAATCGGGGCTTGTGAGTTCATGAAAGATCGGTTATAT
TTTGCTACTTTAAGGAATAGACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTAT
GAAAATTTCTATGCAGATTTTGGACCGCTGAACCTGGCAATGGTGTACAGATATTGCTGCAAACTAAACAAGAAA
CTAAAATCATACAGTTTGTCAAGAAAGAAAATAGTGCACCTACACCTGTTTTGACCAACGGAAAAGAGCAAAATGCA
GCATTTTTGATAGGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTACAGAGCACTCCTGTCT
GGCTCAAACCCCCCTATCTCCATTCAGGGATGCTTCCTTTGGAAATTGCACCTACAATCTCACCATTCTCGAC
TGTTTGCAGGGAATCAGAAAGGGATTACAACATGGATTTTTTGTGACTTTGAGACATTGATGTGGATGAATATGAA
CATTATGAGCGAGTTGAAAATGGTGACTTCAACTGGATTGTTCCAGGAAAATTTTAGCATTTAGTGGACCACAT
CCTAAAAGCAAAATGAGAATGGTTATCCTCTTCAGCCCCCTGAAGCCTACTTCTTATTTCAAAAAGCATAAT
GTGACTGCAGTTGTGAGGCTAAACAAAAGATTTATGAGGCAAAGCGCTTCACAGACGCTGGCTTCGAGCACTAT
GACCTCTTCTTCATAGATGGCAGCACACCCAGTGACAACATCGTGCGAAGGTTCTGAACATCTGTGAGAACACC
GAAGGGGCCATCGCCGTTCACTGCAAAGCTGGCTTGGGAAGAACAGGGACATTGATAGCCTGTTATGTAATGAAA
CACTACAGGTTTACACATGCTGAAATAATTGCTTGGATTAGAATATGCCGGCCAGGCTCTATTATAGGACCCAG
CAGCACTTCTTGGGAAGAAAACAAGCATCGTTGTGGGTCCAAGGAGACATTTTCCGATCCAAACTGAAAATCGA
CCATCCAGTGAAGGAAGTATTAATAAAATTCTTTCTGGCCTAGATGATATGCTATTTGGTGGAAATCTTTCAAAA
ACACAAAACATGGAACGATTTGGAGAGGATAACTTAGAAGATGATGATGTGGAATGAAAATGGTATAACCCAG
GGAGACAAACTACGTGCCTTAAAAAGTCAGAGACAGCCACGTACCTACCATCCTGTGCATTTAGGTCAGATGAT
ACAAAAGGACATCCAAGAGCAGTGTCCAGCCTTTCAGATTAAGTTCATCCCTGCAAGGATCTGCAGTTACTTTG
AAGACATCAAAAATGGCACTGTCCCTTCAGCAACGCCCAAGAGGATCAACAGAACTTCTTTGTCTTCGGGTGCC
ACTGTAAGAAGCTTTTCCATAAACTCCCGGCTAGCCAGTTCTCTAGGGAAGTTGAATGCTGCAACAGATGATCCA
GAGAACAAAAGACCTCCTCATCCTCTAAGGCAGGCTTCACAGCCAGCCGTTTACCAACCTCTTGAATGGCAGC
TCCCAGCCAACTACCAGAAATTACCTGAGCTCAACAATAATCAGTACAACAGAAGCAGCAACAGCAACGGGGGC
AACCTGAACAGCCCCCAGGCCCCACAGCGCCAAGACAGAGGAGCACACCACCATCCTCCGACCCTCTTACACC
GGGCTTTCTTCTTCTTCAGCGAGATTCTGAGCCGTTCTATCCCTTCCCTTCAGTCTGAATATGTTCACTACTAA
GGCCTTGCCACTCCAGTGAAAGCTGTTCTTCTCTAGACACAATTTCTTCATCTGGACGAGCAGTGGAGAGGGAA
AGCAACTTCTTGCTGGAAGAATATCTCTGCCTTCTTACCTTAAATTAAGAGAGCACTAAGATAACACCTTCAAG
AGACTTGAAAACAGAAAAGTGGTTAATGACTACTATAAATGCAGTGAAGTATGTTATGGAGATTTCCATACCTT
TAAAGACAGTTTAAATGTTGAATTTGGTATTTTGAAGGGTTATTTTAAATGATTTTGGTAATACATTTATTATT
ATATTTACATGTACAGTGTTACATTATATATGATTTGTGAACCTTAAAGACTATTTTGATAAATTTATAAATAT
ATAAATATATGTAAGAACTACACTATATTTTGATTTAGATTTTCTGCTGTTTGCTACCAAAATTTGTATTTTA
AATCTGTTTAGTTTTAGTATGGTTTTGTCTCTAATGAATAAATAATTCCTTCTTATTAAGAAGAAGTAAGGGAGA
AAGTTTTTAGAAAGTGATTTTTATGCTCGCACTATAAATATGGCAGGTCAGTTCATTCTTTTGGGAAGTCAGTTT
AGTTACACTGAGTTTATCCAAGTTTATCTTACCAAGAGTATAATGGCATGGGATGGCTTATTTAGGACAATTCC
CTTTCCTATTGTTTTTGTGCTGAGCCAATTTGAGTTAGTTTTGCATCCTGGGGGGCTTAAATACAGCATGCA
GTGAAAGATCAGAATTCAGTGAATATTTCTTCTGAGAGCATGGTTTTCATGGTTTTTCTCTATGAAATGACTCAAT
ATTCCAAATGTTTTTTTTCTTCTCCTTTCAAAAGAGTTCTTAACCAATTAGGATATCCTGCTTTGGGTATG
AGGTTGTTGTTGCCTGTAATCACACATGGTTTGACATCAGTTTTAAATCAATGGAGAGAAAAAAGTGAAGAGAT
GCTGCTAAGTAGTTCTCTGTATTAAAGGAGATATTTTTAAACAGGGTACAACCCCTGCTGCACACGCTAGCAT
ATCTGGAACCTACTATGAAAATGAAAGGACCCCTATAGGTACTCACAGCCCTTTCATGTAAGTATGATCTGATAT
TTAGGTCTTCAGAAGCCTGAGGTTTCATTTCTATGAGGAATCGAGGAGCGTTACATCCTGATATCCTTCCAGGC
TGCTTAAAGATGGACTGCTTCGACACTGAAAGTGCTAGTTAAATGGATTCAATGAAGTGCTTTACTCCCAACCA
TTGAGTTATTTATAATGTATTTATTAGGGGAGGGTACCTTGAGTCTATTATATATGCTTCATCAAAACATCTTGT

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FIGURE 537B

TCATGTTTTATGTTTTTAAAAAAGGCATTTGAATGAATGTTTGACTCAGGTTTGTTAAATTAAC TTCAGTAACTG
CAGTACCAAAAATTACACTCAACTGATGAAAAAACGAATTGTATGATTTAGGAATCAAAAAC TAAAATAAGTGG
AATTATGTATCTTTTCTAAAGTTAAAAAAGTAAAATATTTTATTATGAGTTATTATAAAAAATTGGTTAATTGTAT
AGGAAGATGACAGTATTTTTTTCAAGTTATCATAAAAAGTAATTCAGATGACATTTGAGAAGTAGGGGAAAGGGA
ATCATGTTGACAGTTTTAGTTCTGTGAACACTAATTTGTGTGAAGCTATTAAATGATTGTAAAGTTGACTACTG
TAAATTTCCCATTAATTATGTGTGTATATGTGTCATATGTATGTACATGTATATGTCTAAAAATTACTTTACACAT
GTGCCTACATAGACACACCAAGAAGTGGATGTATATAATATAGAAAGTATATAGCAAAGTAATTTTACTCTGATA
ATAAAAATTGTTTGACATGTATTTTGTATGAATAGTTTATCTTCCAAAAGATATTTTGCTCTATTTTAAAGTGT
AGAAGAATACACTGCTAATAAATAATAAAAGTTTATTCAATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 538

MAESGELIGACEFMKDRLYFATLRNRPKSTVNTHYFSIDEELVYENFYADFGPLNLAMVYRYCCKLNKKLKSYS
LSRKKIVHYTCFDQRKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFGNCTYNLTILDCLQGI
RKGLQHGFDFETFDVDEYEHYERVENGDFNWIVPGKFLAFSGPHPKSKIENGYPLHAPEAYFPYFKKHNVTA
VRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAI AVHCKAGLGRTGTLIACYVMKH
YRTHAEIIAWIRICRPGSIIGPQQHFLEEKQASLWVQGDIFRSKLKNRPSSEGSINKILSGLDDMSIGGNLSKT
QNME
RFGEVSFP

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FIGURE 539

CACTCCCAAAGAACTGGGTACTCAACACTGAGCAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAG
TTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAGCAAGCAACTTTGA
CTGCTGTCTTGGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAATGA
AGGCTGTGACATCAATGCTATCATCTTTCACACAAAGAAAAAGTTGTCTGTGTGCGCAAATCCAAAACAGACTTG
GGTGAAATATATTGTGCGTCTCCTCAGTAAAAAAGTCAAGAACATGTAAAAACTGTGGCTTTTCTGGAATGGAAT
TGGACATAGCCCAAGAACAGAAAGAACCTTGCTGGGGTTGGAGGTTTCACTTGACATCATGGAGGGTTTAGTGC
TTATCTAATTTGTGCCTCACTGGACTTGTCCAATTAATGAAGTTGATTCATATTGCATCATAGTTTGCTTTGTTT
AAGCATCACATTAAAGTTAAACTGTATTTTATGTTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATAC
TAATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATTTGGGGGGGAATAAGATTATATGGACT
TTCTTGCAAGCAACAAGCTATTTTAAAAAAACTATTTAACATTCCTTTGTTTATATTGTTTTGTCTCCTAAAT
TGTTGTAATTGCATTATAAAATAAGAAAAACATTAATAAGACAAATATT

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FIGURE 540

MCCTKSLLLAALMSVLLLHLCGESEAASNFDCCCLGYTDRI LHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCA
NPKQTWVKYIVRLLSKKVKNM

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FIGURE 541

GGCACCGATTTCGGGGCCTGCCCGGACTTCGCCGCACGCTGCAGAACCTCGCCCAGCGCCCACCATGCCCCGGCAG
CTCAGCGCGGCGGCCGCGCTCTTCGCGTCCCCTGGCCGTAATTTTGCACGATGGCAGTCAAATGAGAGCAAAAGCA
TTTCCAGAAACCAGAGATTATTCTCAACCTACTGCAGCAGCAACAGTACAGGACATAAAAAAACCTGTCCAGCAA
CCAGCTAAGCAAGCACCTCACCAAACCTTTAGCAGCAAGATTTCATGGATGGTCATATCACCTTTCAAACAGCGGCC
ACAGTAAAAATTCCAACAACCTACCCAGCAACTACAAAAACACTGCAACCACCAGCCCAATTACCTACACCCTG
GTCACAACCCAGGCCACCCCAACAACCTCACACACAGCTCCTCCAGTTACTGAAGTTACAGTCGGCCCTAGCTTA
GCCCCTTATTACTGCCCACCCACCATCACCCACCAGCTCATACAGCTGGAACCAGTTCATCAACCGTCAGCCAC
ACAACCTGGGAACACCCTCAACCCAGTAACCAGACCACCCTTCCAGCAACTTTATCGATAGCACTGCACAAAAGC
ACAACCGGTTCAGAAGCCTGATCAACCCACCCATGCCCCAGGAACAACGGCAGCTGCCCAACAATACCACCCGCACA
GCTGCACCTGCCCTCCACGGTTCCCTGGGCCACCCTTGCACCTCAGCCATCGTCAGTCAAGACTGGAATTTATCAG
GTTCTAAACGGAAGCAGACTCTGTATAAAAGCAGAGATGGGGATACAGCTGATTGTTCAAGACAAGGAGTCGGTT
TTTTACCTCGGAGATACTTCAACATCGACCCCAACGCAACGCAAGCCTCTGGGAAGTGTGGCACCCGAAAATCC
AACCTTCTGTTGAATTTTCAGGGCGGATTGTGTAATCTCACATTTACCAAGGATGAAGAATCATATTATATCAGT
GAAGTGGGAGCCTATTGACCGTCTCAGATCCAGAGACAGTTTACCAAGGAATCAAACATGCGGTGGTGATGTTT
CAGACAGCAGTCGGGCATTTCCTCAAGTGCCTGAGTGAACAGAGCCTCCAGTTGTCAGCCCACCTGCAGGTGAAA
ACAACCGATGTCCAACCTCAAGCCTTTGATTTTGAAGATGACCCTTTGGAAATGTGGATGAGTGCTCGTCTGAC
TACACAATTGTGCTTCCTGTGATTGGGGCCATCGTGGTTGGTCTCTGCCTTATGGGTATGGGTGTCTATAAAATC
CGCCTAAGGTGTCAATCATCTGGATACCAGAGAATCTAATTGTTGCCCGGGGGGAATGAAAATAATGGAATTTAG
AGAACTCTTTCATCCCTTCCAGGATGGATGTTGGGAAATTCCTCAGAGTGTGGGTCTTCAAACAATGTAAACC
ACCATCTTCTATTCAAATGAAGTGAGTCATGTGTGATTTAAGTTCAGGCAGCACATCAATTTCTAAATACTTTTT
GTTTATTTTATGAAAGATATAGTGAGCTGTTTATTTCTAGTTTCCTTTAGAATATTTAGCCACTCAAAGTCAA
CATTTGAGATATGTTGAATTAACATAATATATGTAAAGTAGAATAAGCCTTCAAATATAAAACCAAGGGTCAATT
GTAACATAACTACTGTGTGTGCTGAAGATTTTATTTTACCCTTGATCTTAACAAGCCTTTGCTTTGTTATC
AAATGGACTTTTCAGTGCTTTTACTATCTGTGTTTTATGGTTTTTCATGTAACATACATATTCCTGGTGTAGCACTTA
ACTCCTTTTCCACTTTAAATTTGTTTTGTTTTTGGAGACGGAGTTTCACTCTTGTCAACCAGGCTGGAGTACAG
TGGCAGGATCTCGGCTTAAGGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCTTCAGCTTCCCGAGTAGC
TGGGATTACAGGCACACACTACCACGCCTGGCTAATTTTTGTTATTTTATTATAGACGGGTTTACCATGTTGGC
CAGACTGGTCTTGAACCTTTGACCTCAGGTGATCCACCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
AGCCATTGCGCCCGGCCTTAAATGTTTTTTTTTAATCATCAAAAAGAACAACATATCTCAGGTTGTCTAAGTGTTT
TTATGTAAAACCAACAAAAGAACAATCAGCTTATATTTTTTATCTTGATGACTCCTGCTCCAGAATTGCTAGA
CTAAGAATTAGGTGGCTACAGATGGTAGAACTAAACAATAAGCAAGAGACAATAATAATGGCCCTTAATTATTAA
CAAAGTGCCAGAGTCTAGGCTAAGCACTTTATCTATATCTCATTTTCATTCTCACAACCTATAAGTGAATGAGTAA
ACTGAGACTTAAGGGAAGTGAATCACTTAAATGTACCTGGCTAACTGATGGCAGAGCCAGAGCTTGAATTCATG
TTGGTCTGACATCAAGGTCTTTGGTCTTCTCCCTACACCAAGTTACCTACAAGAACAATGACACCACACTCTGCC
TGAAGGCTCACACCTCATACCAGCATACGCTCACCTTACAGGGAAATGGGTTTATCCAGGATCATGAGACATTAG
GGTAGATGAAAGGAGAGCTTTGCAGATAACAAAATAGCCTATCCTTAATAAATCCTCCACTCTCTGGAAGGAGAC
TGAGGGGCTTTGTAAACATTAGTCAGTTGCTCATTTTTATGGGATTGCTTAGCTGGGCTGTAAAGATGAAGGCA
TCAAATAAACTCAAAGTATTTTTAAATTTTTTGTATAATAGAGAACTTCGCTAACCAACTGTTCTTTCTTGAGT
GTATAGCCCCATCTTGTGGTAACTTGCTGCTTCTGCACTTCATATCCATATTTCTATTGTTCACTTTATCTGT
AGAGCAGCCTGCCAAGAATTTTATTTCTGCTGTTTTTTTGTCTGCTAAAGAAAGGAAGTCAAGTCAGGATGTTAAC
AGAAAAGTCCACATAACCCTAGAATTTCTAGTCAAGGAATAATTCAAGTCAGCCTAGAGACCATGTTGACTTTCC
TCATGTGTTTCCTTATGACTCAGTAAGTTGGCAAGTCTGACTTTAGTCTTAATAAAACATTGAATTTAGTAA
AGGTTTTTGCAATAAAAACTTACTTTGG

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FIGURE 542

MPRQLSAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAPHQTILAAAFMDGHITF
QTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSTAPPVTEVTVGPSLAPYSLPPTITPPAHTAGTSSS
TVSHTTGNTTQPSNQTTLPATLSIALHKSTTGQKPDQPTHAPGTTAAAHNTTRTAAPASTVPGPTLAPQPSSVKT
GIYQVLNGSRLCIKAEMGIQLIVQDKESVFSPPRYFNIDPNATQASGNCGTRKSNLLLNFGGGFVNLTFTKDEES
YYISEVGAYLTVSDPETVYQGIKHAVVMFQTAVGHFSFKCVSEQSLQLSAHLQVKTTDVQLQAFDFEDDHFGNVDE
CSSDYTIIVLPVIGAIVVGLCLMGMGVYKIRLRCQSSGYQRI

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FIGURE 543

AGCATCGCGCGCAAGGCCTGCCGGTTGCTCGGGGTCGTATGACGCACITTTCCAGCTCGAGCCCTCACGAGGCCG
TGGGTACGACCGGAAGCCGCAGACTGAATCTCGCTCTGTTGCCAGCCCATCTCGGCCCACTGAAACCTCCACCT
CCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGCGCCCGCCACCACGCCCAGCA
TGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTCCCAGCAGCTGGCTTTAAAA
AAACAGTAAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGTGGAAGACTGGA
TCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTA
GGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTATAAACTGGCTCGGAGAAGAA
GTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTTCTTTACAACCAAAAAAAGTATGATA
GAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTCCAACCCAGCTGGATGTGCAGGCTACCAAAA
GATTTGACCTTTTACTTGATGGACAGTTTAAAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTACTGCCTATC
ACCATTGCACITTTATTATGTAGTACTGATGGGACGTTCTTGTCTTCTTTGCTAAAGAGCCCTTACCAAGGGATCA
GGAGCAATGCCACTGCTAGCATACCTTCCTTAGTGAAAAATCTTTGGAAAAGGATCCCACTCTGACCTGTGAAG
TACTAATGAATGCTGTTGCTACAGAGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCCAA
CGGATGAGACACTGTTTCTTGGAAATAAATAGCAAAGCCAAAGAACTGCAAACCTGGGAGTGGATATATGGCAAAA
CTCCAAAGTTTAGTATAAATACTTCCTTTTCATGTGTTATATGAACAGTCACACTTGGAAATTAAGTATTATAG
ACATAAAGAATGGAAGAATTGAAATTTGTAATATTGAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACA
AATTAAATTCAAGTCTTATTGGCAGTAAGTTTGGCCCACTGAACTACCATGCTAACAATATATTACTTAGAA
CATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGGAATAATGTGATTCC
AAGTAAATGTCTTAATACAGTTTCAATTAGAAAAATAAATGTCTCATACTTGCACATTGTATGTC

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FIGURE 544

MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLILOSI SNDVYQNLAVEDWIDHDMNLEGKPI LFFWQNSPSVIG
RHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINLTFFTTKKKYDRMENLKLIVRALNAVQPQLDVQATK
RFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSSLLKSPYQGIRSNATASIPSLVKNLLEKDPTLTCE
VLMNAVATEYAAAHQIDNHIHLINPTDETLPFGINSKAKELQTEWYIYGKTPKFSINTSFHVLQEYQSHLEIKVFI
DIKNGRIEICNIEAPDHWLPLEIRDKNSSSLIGSKFCPTETTMLTNILLRTCPQDHKLNSKWNILCEKIKGIM

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FIGURE 545A

GCGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGCACTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTGGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTGGATGAGAAAAGATTTGAGTCTTAATAATTACCTTGTTTTAAAGCTATTTCTTTATAGTCTGAAGTGTAA
TAAATTGGGCCACTTACCAATGAGCCACACAGCCAGTTCTTGTGAGGAGCTGGTTGAAAAGTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCTTTTATCATGGTGCCAACCAAGAACT
TGACCTGTCCACCAAAGTGACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGGACACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAACGCCATATTTACGGGAGACAAGAGCAGTGTCTGACGTGCATGTGTAA
GGAAGACCGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAGGAGAACCAGGAG
AGTGCCTCTGTTGCCGAGCTACCACTTCCCTACTCCAGAACTACAAGAGGTCGTAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGCCCAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACAACCTGCTGGTACCTGGAGAAGCAGATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAGTGAGCTGTCCCTTCACCAGCAAACAGA
CTGTGAAAAAACATTGAGTGTGTTTCTGTAAACAAATCGTTCAAGAACTCTGGTCCCTTCATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCTGTGAAATTTGTGAGAAGAAATTTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAATTCATTCAAACGCAG
TATGTCACTCAAGGTGCACTCCTTGACAGATTCTGGAGAGAAGCCCTTTAGATGCGAGAACTGTGACGAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCCATGAGCATTATATTGGGCACAAACAGTTCATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTATCTGTGA
AATCTGTGGCAAAGCTTCACCAGCCGCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTCCGGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACCTTCCCCAGCCACCCAGTTCTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACCACCTTCCCATCCCTCCAGTCCCTCA
CCTCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTTCTGCG
GCACCTGGCAGAGAAGAAGAGTTGAGCAGCAGCATCATTAACATCCGCTCTCCTTAGTGTGTTCTCCAGGAGACAG
TCCCCATGTGTGAGCGTGACAGAGGGAGTGGTGAGCATTTCCTTAGTCTCAGACTCTCCTCCGCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCTCTAAACAGGGGAACCACTGAATAAGCCCAATTTGCTTGCAATTTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTATATCAGCTGATGAGGTATGCTTGCTTTTATATCCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCTTTGTACTAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAATT
GTATCACTGTGTATGGTAAGGAATTTTTCAGCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAGACAGAAATTTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATATTTTAGAGTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAAATGAAATGTATTTCAATAAGC
AGTGTAAATTTTTCAGTGTAGCTGAACCTATGTTGTAAAATAGAAAAAATTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATTCAAAGCTATCTTACATCCGTACAACCTAAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTGGCTTTCAGGATTTGGCGTAAATAC
TTGGTAGTTTGTACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGCTCCTCCATGTTCTGCTTG
GCTTCGTTAGTGCATTACATGAAATGATTGTCAGGGGATGGGGCCTTTCCAGGGAAGTCACCTAAAGCTTGCA
GTTTTGAAAATTTGAATAAGGCTGTTTGTGACAGGAGGAGGAAGTAGTGGAGATCATTTCATCTCAGTCACGTC
TGTTTCTCACTTCCCTTAGGAATTGTGTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTCTAGAATTGTTATAAGAAGCTAAAATAGTAACTTAAAATCACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTTGTTATGAATTTTGAATATCTATTATATGTAAATGTGGA
TATGTTCAACCTTGAGCTATTTTAAACAGTTTAAATATAGTGAGGGAAGAACTCCTAAGTTTTACTGCCCTGT
CCTCTGCAAATATGTAATACCAGCATTCTTAGCGGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

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FIGURE 545B

CTTTTCAAGTTTGGGGAAC TTCAAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAAATTTTGTATTTCTTTATC
TGAGAGAAGTGAAGTTCCAGGCTAAATCACTTACCTCCCACCCCTCTCCAATTTTTTTTTTAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTCTT
GGGTTCAAGCAACCCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCAGTCCATTTT
TTAATCTTGAAATTTCTTCATTTTTCTTTCTTCGGTTTCTTAAAATCTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTTATTTTAAATATTAAATGTGCAGATATGCTTCGAGCACTTTTCTAACTAATGAGCTCTGTGGTAA
GAAAAATGAACCTTTCAATTGAGATTAAGTCCATATTTTTCAAACATCACGTTCTCTATTGGCTTTTTGGTTT
AGTGTCTTCAAATTTCTCCTTCTGATTTTGCTGTCTTATATAATGAGCATAGGAAAAATTTGGAATGAGGCAG
AAAAGTATATCAAGACATACTTCCTGGTTTTGGATGTAAGTTTTAAAGAATGGTATTTTTAATATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGCATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTGTC AACCTACACTTTTATATAGACATGTC
ATTATTTCAATGGTCAAGCCTGTAGTATTAAAATGATTTTTTAAAAGATGTAACTGTGCTTAGTTAATTGGTTA
TATTTTGTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTCTGTTGCCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCACTGCAACCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCAGCCCCGGCTAAGTTTGTATTTTGGCAGAGATGGGGTTTCACCATAT
TGCCAGGCTGGTCTCAAACCTCCTGACCTTGTGATCCGCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACCATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTCAGGTAGTCATCTTT
GATTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATATTATTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGATTGTGGAACAATTTAGAACTTCCTTTTTTCCCCTAGATTAAGGATACCTTCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAAC TACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAGAATATTCACAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

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FIGURE 546

MSHTASSCQELVENCAVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEVSYKREQIIVEVNLNNQTLNVSKGEKGVSSQSKETPVLKTS
SEEEEESEEEATDDSN DYGENEKQKKKEKIVEKVSVTQRRTRRAASVAAATTSPTPRTTRGRRKSVEPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELHQQTDCEKNIQ
CVSCNKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMAHVRKHMVAHTKDMPTCETCGKSFKRSM SLKVH
SLQHSGEKPPRCENC DERFQYKYQLRSHMSIHIGHKQFMCQWCGKDFNMKQYFDEHMKHTHTGEKPFICEICGKSF
TSRPNMKRHRRTHTGEKPYPCDVCGQRFRFSNMLKAHKEKCFRVTSFVNVP PAVQIPLTTSPATPVPSVNTATT
PTPPINMNPVSTLPPRP IHPFSLHLIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRH LAEKN
SSAQHH

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FIGURE 547

CAAGAGATGATATTTATACATTGCAGATCAATCCTGATTCTGCAGTTAATCCGGAACATTTATCCTATTTCCACT
TTGTTGGACGAATAATGGGAATGGCTGTGTTTCATGGACATTATATTGATGGTGGTTTCACATTGCCTTTTTATA
AGCAATTGCTTGGGAAGTCAATTACCTTGGATGACATGGAGTTAGTAGATCCGGATCTTCACAACAGTTTAGTGT
GGATACTTGAGAATGATATTACAGGTGTTTTGGACCATACTTCTGTGTTGAACATAATGCATATGGTGAAATTA
TTCAGCATGAACTTAAACCAAATGGCAAAAGTATCCCTGTTAATGAAGAAAATAAAAAAGAATATGTCAGGCTCT
ATGTGAACTGGAGATTTTTACGAGGCATTGAGGCTCAATTCTGGCTCTGCAGAAAGGATTTAATGAAGTAATTC
CACAACATCTGCTGAAGACATTTGATGAGAAGGAGTTAGAGCTCATTATTTGTGGACTTGGAAAGATAGATGTTA
ATGACTGGAAGGTAAACACCCGGTTAAACACTGTACACCAGACAGCAACATTGTCAAATGGTTCTGGAAAGCTG
TGGAGTTTTTGTATGAAGAGCGACGAGCAAGATTGCTTCAGTTTGTGACAGGATCCTCTCGAGTGCCTCTGCAGG
GCTTCAAAGCATTGCAAGGTGCTGCAGGCCCGAGACTCTTTACCATAACACCAGATTGATGCCTGCACTAACAACC
TGCCGAAAGCCACACTTGCTTCAATCGAATAGACATTCCACCCTATGAAAGCTATGAAAAGCTATATGAAAAGC
TGCTAACAGCCATTGAAGAAACATGTGGATTTGCTGTGGAATGACAAGCTTCAAGGATTTACCCAGGACTCTATT
TATACAACCCTGACTGACAGCCTCCTTTCAGCAGAGTTTCAAAGAATATGCTGAAATACAGGAAACACTCCCCC
CCCCCCCCCTTTTTTTTTTTTTTTTTTTTACATTTTAGGACACTGTGAGGGGAAAGGACAATTTTGAAATTCCTTTT
AAGGAAAAAAAAGGTCTTTATGCTTTGCCATGAGGCCACATTCAGCTGCTATTTAACTTAATATCTTGAACCTA
AAGAATGCTGACTTTTCCTACATTTCCAGAGTTAGGCAGTATTCTACACTTAAAGACTACTACTATTTTTATAAA
AGGTAATCTATTCAAATTTCTTCACAGATTTCAAGTCTCTCAAACATCAAGACAACCTTCAGCAGTCGGTACAAGT
CACATTTTCAATTTGATTGAATACATGATCTTGAACAGCTCCTGTACTTGCTCTTTGTAAAAAAAATAAAATTAT
TTTGAATTATTCAAAAAAAATAAAATTAT

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FIGURE 548

AAAGGACCGAGGCGTGCAGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCCTGTCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCCTTCCACCAGAAACCAGACTTCCTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTTCCACAGT
CCCCAACTGGCACTTCCCTGTCTCAGACGCCCGGCGCAGGCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTCAAGTCAAAGTGTGGTTCCAGAACCAGAGG
ATGAAGTGAAGCGTGTGAAGGGAGGTAGCCCATCTCCCCCAATGGGCAGGACCCCTGAGGATGGGGACTCCACA
GCCTCTCCAAGTTCAAGTGAGATTCTGCATGGAGGAAAAATGACTAAGGACTGAGCCCCCTACCCAACTACCCC
CACCCCAATCCACCTTACCCTCTTCTTCCCCAGCCAGGGCAGCCTCTCCACATCTTTCCCTGACTCTTGGAT
ATGAAACTGCCAGCATTCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGTCCAGCCTCTTAGCAGCCTCTTCC
CTAGGGCCTTTGCTCCCACTCTCATGGAATCAGACAGAGATCTTACCGGGCCGGATGAATCTGGAACAGCTT
CAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCTACCGCTGTTCTCCTAGGTCAGCCAG
GCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAACCAGCTGGCGACTCGGAAAGTAA
ATGCTTCAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCACCTTCTCTGTAGGCTGCACATCTGAGGCT
TTGGGGCCCCCTTAGTTGTCCCGAAACCCCAAGAAAAATCAGAATGAGGAGAGTCAAGGACAGCAACTCAGCTGCT
GCAAGCCAGAAACACATCCCTGTCTCAAATTTGTTGGCTAAGTGGAGACACTTCTGAGAAGTACTAGAGAAGA
CAGAAAAATAGCCCGATGTAGGTTTCGGTGTCCCATATAGGCCCGTCCACACAGGCTTGACTGGGTGGACAAGA
ATGAACCCATGACAGCACCTGCTGCTTCAAATCAAATCAATTTAGGGATACAGCAGGGGCTGTGGGCTGTGC
TCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAAAACCTGTCCAGATGCTGAGTTGT
TGGGCTGAACAACTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCCCTGCATTCTGGAGGGGAGGGGAGA
TAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCTGGAGTGGAAAGGTTCTCCAGTGACAGTGTCC
TGTGACTGCAAAAGGGGACAAGAAAAATCCCTCTTCTCCATGGGATGGATTTAAGCTCTTGCTGTGTGTTCTACA
AATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCAGACCTCAGCCAGGTCTTCTGGAGA
TGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTGCCTCAGCGCTCTGTCTCCCAACA
CCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCAGATGTAATCATTACATGTAAAA
ATAACCCACCTCCCCACCCCAAAAGGGCAAGAGCTGTGGAAAATGATTGCCAAATGAGATGGCTGGTTAGAGC
ATGATTTTTTCTAAAGCATACTTCATATATTTCTTAAGATTACATCAAGCTAATTGTGCGAGCTCAATTCATT
TGTAAGAAAACCTCTCGGAGAAATAAAATCAATAAAAAGCCAAAAAAAATAAG

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FIGURE 549

MDPAASSCMRSLQPPAPVWGCLRNP HSEGN GASGLPHYPPTPFSFHQKPDFLATATAAYPDFSASCLAATPHSLP
QEEHIFTEQHPAFPQSPNWHFPVSDARRRPNSGPAGGSKEMGTSSLGLVDTTGGPGDDYGVLGSTANETEKSSR
RRKESSGQSVVPEPKDEVEACEGRSAHLPQWAGP

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FIGURE 550

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCTCTGCAGTCTCTCAG
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCT
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACAGGAGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTCCGCGCTGCCATTCTTATCCCGAGTCCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTGTCTTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCTCGGGCATTGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTCTTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTGA
GAAAAAATTGATGAGAAAAAGAAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGGCGAGCACACATCTT
CCCCATGGCAGATGACTATTGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTGAAACAACATGGTGTGGGGCAGGTGG
TACTAGAAATATTTTGGAACTAGTAAATTCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTCCTCGTGCTTGTGGCCAATGACTCAACCTCTTACCCTGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGAAACAGCCGAGTGCCAAAGTA
CATCTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCTATGCTGCTGGCTTCATCTTCACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCACCCCTCACCACAC
ACCCAGATGATGAACTACTTCTTGAAGTCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGTGAGTGAAAGAGAGAAGTCTATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCCTGAGCATGACCTCAATTATTTACCTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTAATCTATAGTAAAAAC
ATAGTCTCGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 551

MESVVRRCPFLLSRVPQAFLQKAGKSLLFYAQNCPKMMEVGAKPAPRALSTA AVHYQQIKETPPASEKDKTAKAV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDPSGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFQYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHRVCGAVMDTLKQH GAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFGCV
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQRNVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAAKNTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPHSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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FIGURE 552

AGCCTACGCACGAAAGTGACTAGGGAGGAAGGATATTATAAAGTGATGCAAACAGAAATTCCACCAGCCTCCATG
TATCATCATGTGTCATAACTCAGTCAAGCTCAGTGAGCATTCTCAGCACATTGCCTCAACAGCTTCAAGGTGAGC
CAGCTCAAGACTTTGCTCTCCACCAGGCAGAAGATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAG
GACTATCTGCAGTGGTCCTACAGATACCACAACCTGGATCAGGTCCAAGCAAAACGTCCAGAGTGCTACAAAAT
GTTGCGTTCTCAGTCCAAAAGAAGTGGAAAAGAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCGTA
GACACTGCCAGAACTATTCAACCAAGTGATGGAAAAGGAGTTTGAAGACGGCATCATTAACTGGGGAAGAATT
GTAACCATATTTGCATTTGAAGGTATTCTCATCAAGAACTTCTACGACAGCAAATTGCCCGGATGTGGATACC
TATAAGGAGATTTCATATTTTGTGCGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAAACGGAGGC
TGGGAAAATGGCTTTGTAAAGAAGTTGAACCTAAATCTGGCTGGATGACTTTTCTAGAAGTTACAGGAAAGATC
TGTGAAATGCTATCTCTCTGAAGCAATACTGTGACAGAAAGGACACTCCATATTGTGAAACCGGCTAATTT
TTCTGACTGATATGGAAACGATTGCCAACACATACTTCTACTTTTAAATAAACAACTTTGATGATGTAACCTTGAC
CTCCAGAGTTATGGAAATTTGTCCCATGTAATGAATAAATTGTATGTATTTTCTCT

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FIGURE 553

MTDCEFGYIYRLAQDYLCVLPQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDTARTLFNQVM
EKEFEDGIINWGRIVTIFAFEGILIKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGWENGFWKKFEP
KSGWMTFLEVTGKICEMLSLKQYC

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FIGURE 554

GAATTCCTGAGGCGGGAGACCGGTGGTCTGCACCGTCCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGC
CACTGGGATGTGTTCGGGCTTTGGACCTTGAGCCGGAGAGAGCTCCCGAGAGGAGGCGGCGCACGTTTCGTCTT
CTGAGGGGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTCTCTGAAGAAACAGAACCAGAG
AGGGAAGGTGACCTGAAAGTCACTGAATAATTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAACTGC
AGAGACGAGAGATCTTCTGCTGTCTATACTCTTGAAAGCACATCCTAAGATCTTTCAGATTATCTGTGGAAG
GAGAATGCCTAAAGTCAAACGAAGCCGAAAGCACCCAGGATGGCTGGGAGTTGATTGAGCCAACACTGGATCA
ATTAGATCAAAGATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAGAGGAAAGTGAATCTCTGTGGCCCAT
CTTCAGGATCCACCACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCTACAGCAGAGAACT
CTTAGATATATGTTATAAAGAAGGCTTAGCAGACAAAAACCTGTTGGCAAAATGGAAAAAGCAAGGTATAGGAAA
CTTGTGCTGCCTGCGGTGCATTTCAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCCAAAAG
CAAGCTGGAAGTGGGCCGCATCATCGAGTGCACACACTGTGGCTGCCGTGGCTGCTCTGGCTGACGGTGGCTGCT
GCTCCACCCCTGGACTCTGGACTTCGCAGGTTCCCTTGCTGTACGCCACCCCTTCCTGGGAGCAGCGAGCAGTG
CCCCAGGCCCGAGTTGGAGCACGGTCTCTATGGGGAAGCGTTCGCTGTCTATCAGCTGTGATTTGTAAAAATAAA
ATCTTTAAATCTCTCGAAAAAAAAAAAAA

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FIGURE 555

MPKVKRSRKAPQDGWELIEPTLDQLDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAYSRELL
DICYKEGLADKNLLAKWKKQGIGNLCCLRCIQTRDTNFGTNCICRVPSKLEVGRIEEECTHCGCRGCSG

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FIGURE 556

CCGCCATGGGGTCCCTGTTCCGGAGCGAGACCATGTGCCTGGCGCAGCTCTTCCTGCAGTCGGGCACGGCCTACG
AGTGCCTCAGCGCCCTGGGCGAGAAAGGCCTGGTCCAGTTCGAGACCTCAACCAGAACGTAAGTTCTTTCCAAA
GAAAATTTGTTGGTGAGGTGAAGAGGTGTGAAGAGCTAGAGCGAATATTGGTGTATTTGGTACAGGAAATTAATA
GAGCTGATATTCCCCTTCCTGAAGGAGAGGCCAGCCCTCCTGCGCCACCCCTGAAACAGGTTCTAGAAATGCAGG
AGCAGTTGCAGAAGCTCGAGGTGAACTGAGAGAAGTCACTAAGAACAAGGAGAACTGAGGAAAACTTGCTGG
AACTGATAGAGTACACTCACATGCTGAGAGTGACAAAGACCTTTGTGAAACGCAACGTTGAGTTGAACCCACTT
ATGAAGAATTCCTTTCCTTAGAGAGCGATTCTTTGTTGGATTACAGCTGTATGCAGAGGCTGGGAGCAAACTGG
GATTTGTGCTGGCCTAATTAACCAAGGAAAAGTGAAGCATTGAAAAAATGTTGTGGAGAGTCTGCAAGGGT
ACACCATCGTGTCTATGCAGAACTGGATGAATCCCTTGAAGACCCTGAAACAGGGGAAGTCATAAAATGGTATG
TCTTTTTAATATCCTTTTGGGGAGAGCAGATTGGCCACAAGGTTAAGAAGATATGTGATTGCTACCACTGCCACG
TGTACCCCTATCCAAACACAGCCGAGGAGCGGAGGGAGATCCAGGAGGGGCTGAACACCCCGCATCCAGGATCTCT
ACACTGTACTGCACAAAACCGAGGACTATTTGAGGCAAGTGCTATGTAAAGCCGCCGAGTCTGTCTACAGCCGTG
TGATCCAGGTGAAGAAAATGAAGGCCATCTATCATATGCTGAACATGTGCAGCTTTGACGTGACCAACAAGTGCC
TCATTGCTGAAGTCTGGTGTCCCGAGGCGGATCTGCAGGACCTGCGCCGGGCACTGGAGGAGGGCTCGAGAGAGA
GTGGTGTCTACAATCCCCTCATTATGAATATAATCCCCACAAAAGAAACACCCCCCACTCGGATCCGCACCAACA
AATTCACCGAGGGATTTGAGAACATCGTGGATGCTTATGGAGTCGGAAGCTACAGAGAAGTCAATCCAGCTCTCT
TTACCATCATCACCTTCCCGTTTTATTGCTGTGATGTTTGGAGACTTCGGACATGGCTTTGTGATGTTTTTAT
TTGCCCTCTTGTGGGTGTTAAATGAAAATCATCCAGACTAAATAGTCAACAAGAGATCATGAGGATGTTTTTTA
ATGGCCGGTACATCCTCCTGCTGATGGGGCTGTCTCAGTGTACACTGGCCTCATCTACAACGACTGCTTTTCAA
AGTCAGTCAACCTGTTTCGGCTCTGGGTGGAACGTGTCGGCCATGTACAGCTCCAGCCACCCACCCGAGAGCATA
AGAAGATGGTGTCTTGAACGACAGCGTCGTTAGACACAACAGCATTTCAGCTGGATCCAAGCATTCTTGGAG
TGTTCCGAGGCCCTTATCCCCTTGGCATTGATCCTATTTGGAACCTGGCCACAAATCGCCTCACTTTTCTAAACT
CTTTCAAAATGAAAATGTCCGTGATTTTAGGAATCATTCATATGACTTTTGGAGTCATTCTGGGAATATTTAAC
ACTTGCACCTCAGGAAGAAGTTCAACATTTACCTGGTTTCCATCCCGAACTTCTCTTCATGCTCTGTATCTTTG
GATACCTTATATTTATGATTTTCTACAAGTGGCTGGTTTTTTCAGCAGAAACCTCCAGAGTTGCTCCCGAGCATT
TGATTGAATTTATTAACATGTTTTTATCCCAGCCAGTAAACAAGTGGCCTTTACACAGGGCAGGAGTATGTCC
AGAGAGTGCTGCTGGTTGTACAGCATTGTCTGTCCCTGTCTCTTCTGGGAAAGCCACTGTTTTTGTGTGGC
TTCACAATGGGCGTAGTTGCTTCGGGGTGAACCGGAGTGGCTACACACTTATAAGGAAAGATAGTGAGGAAGAAG
TTTCATTGCTGGGAAGCCAAGATATAGAAGAGGGAAATCACCAGGTGGAAGATGGATGTAGAGAAATGGCGTGTG
AAGAGTTTAATTTGGAGAAATATTAATGACCCAAGTAATCCATTCCATCGAGTACTGTCTGGGATGCATCTCCA
ACACCGCCTCCTACCTGAGGCTCTGGGCGCTTAGCCTGGCTCACGCACAGTTGTCTGATGTCTGTGGGCCATGC
TGATGCGCGTGGGCCTCCGCGTTGACACCACCTATGGCGTCTTGCTACTGCTCCCGGTTATCGCGCTCTTTGCAG
TTTTGACCATTTTCATCCTTCTGATCATGGAAGGGCTTCTGCGTTTCTTCAGCCATACGCCTCCACTGGGTAG
AATTCAGAACAAATCTACGTTGGTGCAGGCACCAAATTTGTTCCCTTCTCATTAGTCTACTTTTCATCAAAGT
TCAATAACGACGACAGTGTGGCATGATCATATTGCTGTAACCAACAAGCTTTGAGATTATGGAGAATGACCATG
TTATAGACTTTCACTTATGTCAGATTATGATAGGAAAAATCCATCTTCATTACTGCCTTATGACATAGCCAAA
TAATTCGTGAAGATATAC

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FIGURE 557

MGSLFRSETMCLAQLFLQSGTAYECLSALEGEKGLVQFRDLNQNVSSFORKFVGEVKRCEELERILVYLVQEI
NRA
DIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKNLLELIEYTHMLRVTKTFVKRNVEFEPT
YE
EFP SLESDSLDDYSCMQR LGAKLGFVSGLINQ GKVEAFEKMLWRVCKGYTIVSYAELDESLED PETGEVI
KWYVF
LISFWGEQIGHKVKKICDCYHCHVYPYPNTAEERREIQEGLNTRIQLDLYTVLHKTEDYLRQVLCKAAESV
YSRVI
QVKKMKAIYHMLNMCSFDVTNKCLIAEVWCPEADLQDLRRALEEGSRESGATIP SFMNIIPTKETPPTRI
RTNKF
TEGFQNIVDAYGVGSYREVNPA LFTIITFPFLFAVMFGDFGHGFVMFLFALLWVLNENHPRLNQSQEIM
RMFFNG
RYILLMGLFSVYTGLIYNDCFSKSVNLF GSGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPS
IPGVF
RGPYPLGIDPIWNLATNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIYLVSIPELLF
MLCIFY
LIFMIFYKWLVSFSAETSRVAPSILIEFINMFLFPASKTSGLYTGQEYVQRVLLVVTALSVPVFLGKPL
FLLWLH
NGRSCFGVNRSGYTLIRKDSEEEVSLLSQDIEEGNHQVEDGCREMACEEFNFGEILMTQVIHSIEYCLGC
ISNT
ASYLRLWALS LAHAQLSDVLWAMLMRVGLRVDTTYGVLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRL
HWVEF
QNKFYVGAGTKFVFFSFSLLSSKFNNDD SVA

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FIGURE 558

CTCTCTCTCTATCTCTCTCAGAAATGACAATTCTAGGTACAACCTTTTGGCATGGTTTTTTCTTTACTTCAAGTCGT
TTCTGGAGAAAAGTGGCTATGCTCAAAATGGAGACTTGAAGATGCAGAACTGGATGACTACTCATTCTCATGCTA
TAGCCAGTTGGAAGTGAATGGATCGCAGCATTCACTGACCTGTGCTTTTGAGGACCCAGATGTCAACACCACCAA
TCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCCTGAATTTTCAGGAACTACAAGAGATATATTT
CATCGAGACAAAGAAATCTTACTGATTGGAAAGAGCAATATATGTGTGAAGGTTGGAGAAAAGAGTCTAACCTG
CAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTCTATCTATCGGGAGGAGC
CAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGAAGTATGTAAAAGTTTAAATGCATGATGTAGC
TTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAG
AAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCATCCCTGATCACTATTTTAAAGGCTTCTGGAG
TGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATAGCTCAGGGGAGATGGATCCTATCTTACT
AACCATCAGCATTTTGTAGTTTTTTCTGTGCTCTGTTGGTCATCTTGGCCTGTGTGTTATGGAAAAAAGGAT
TAAGCCTATCGTATGGCCAGTCTCCCGATCATAAGAAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAA
TTTAAATGTGAGTTTCAATCCTGAAAGTTTCCTGGACTGCCAGATTCTAGGGTGGATGACATTCAAGCTAGAGA
TGAAGTGGAAAGGTTTTCTGCAAGATACGTTTCCTCAGCAACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGA
TGTGCAGAGCCCCAAC TGCCCATCTGAGGATGTAGTCGTCACCTCCAGAAAGCTTTGGAAGAGATTCTCCCTCAC
ATGCCCTGGCTGGGAATGTCAGTGCATGTGACGCCCCCTATTCTCTCCTCTTCCAGGTCCCTAGACTGCAGGGAGAG
TGGCAAGAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCACGCTGCCCCCTCC
ATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGGTCAGCCCATTCTTACTTCCCTGGGATC
AAATCAAGAAGAAGCATATGTCAACATGTCCAGCTTCTACCAAAACCAGTGAAGTGTAAAGAAACCCAGACTGAAC
TTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTTCCTAGTCTCCCTCACAGCACAGAGAAGACAA
AATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACATTGCTTTGACCACCTCTCCTGAGTTCAGTGGC
ACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTGGTGCACAAGGTTTAAAGGTGACCCAATGATTC
AGCTATTT

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FIGURE 559

MTILGTTFGMVFSLLQVVSAGESGYAQNGDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNTITNLEFEICG
ALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTITIVKPEAPFDLSVIYREGANDFVVTF
NTSHLQKKYVKVLMHDVAYRQEKDENKWITHVNLSSTKLTLLQKRLQPAAMYKIKVRSIPDHYFKGFWSEWSPSY
FRTPEINNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKLNVSFNP
ESFLDCQIHRVDDIQARDEVEGFLQDTFPQQLSESEKQRLGGDVQSPNCPSEDVVVTPESEFGRDSSLTCLAGNVS
ACDAPILSSSRSLDCRESGKNGPHVYQDLLLLSLGTTNSTLPPFSLQSGILTLPVAQGPILTSLGSGNQEAYV
TMSSFYQNQ

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FIGURE 560

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTACCATGGATCAGTTCCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTGTTGCCCTACCAACAGCAAGAAGCCCAAGAGTGTACCCGACATTTACCTCCTG
AACCTGGCCTTGCTGAICTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCCTACCGCCTTCTTCTTCATCGGCTTTTTTGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTTCATGTTCAAAAGCAGAAA
GAAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAACAAAT
TTTCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTGTC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCATCGTGTTTTTCTCTTCTGGACACCC
TACAACGTTATGATTTTTCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGCGCTCAGTCCAC
GTTGATTTCTCTCATCTGAATCACAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTTACTTACCACAG
AGTGATGGAGATGCATTGCTCCTTCTCTTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTGTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCTAGAGTGTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAATCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAAATGTCATCAGAACTTTTGGTTTGCAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCCCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCTGGTCTGTAGAAGAGGGATAAGGTACCTTTACATAGAGATCATCCT
TTCCAGCATGAGGAAGTAGCCACCAACTCTTGAGGTCTCAACCCCTTTGTCTGCCTCTTAGACTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTGACAAAGCTTGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCTCCAGTCACCTTGTGCAAGCCCTGCCCAT
CTGGGAAATACCCCATCATTCTGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCCC
CCTAGAAACGTTTGAACAATGTAAACTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACCATCAATATTGTCAATCCTGTATTACCCGTCAGACCTTGTTCACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTCTTAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTCAATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGGCATTACTCAATTGATAAACATTTAACTTGTTCATGTTTA
GCAAAATACATATTTTATAGAACTTC

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FIGURE 561

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNNRTVQHGVTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLPLLIMSYCYFRIIQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNVMIFLETCLKLYDFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFFSSSESQSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 562

CTACCCCTTTGTGAGCAGTCTAGGACTTTGTACACCTGTTAAGTAGGGAGAAGGCAGGGGAGGTGGCTGGTTTAA
GGGGAACTTGAGGGAAGTAGGGAAGACTCCTCTTGGGACCTTTGGAGTAGGTGACACATGAGCCCAGCCCCAGCT
CACCTGCCAATCCAGCTGAGGAGCTCACCTGCCAATCCAGCTGAGGCTGGGCAGAGGTGGGTGAGAAGAGGGAAA
ATTGCAGGGACCTCCAGTTGGGCCAGGCCAGAAGCTGCTGTAGCTTTAACCAGACAGCTCAGACCTGTCTGGAGG
CTGCCAGTGACAGGTTAGGTTTAGGGCAGAGAAGAAGCAAGACCATGGTGGGGAAGATGTGGCCTGTGTTGTGGA
CACTCTGTGCAGTCAGGGTGACCGTCGATGCCATCTCTGTGAAACTCCGCAGGACGTTCTTCGGGCTTCGCAGG
GAAAGAGTGTCAACCCTGCCCTGCACCTACCACACTTCCACCTCCAGTCGAGAGGGACTTATCAATGGGATAAGC
TCCTCTCACTCATACGGAAGGGTGGTCATCTGGCCGTTTTCAAACAAAACTACATCCATGGTGAGCTTTATA
AGAATCGCGTCAGCATATCCAACAATGCTGAGCAGTCCGATGCCTCCATCACCATTGATCAGCTGACCATGGCTG
ACAACGGCACCTACGAGTGTCTGTCTCGCTGATGTCAGACCTGGAGGGCAACACCAAGTCAGTGTCCGCTGT
TGGTCTCGTGCCACCCTCCAAACCAGAATGCGGCATCGAGGGAGAGACCATAATTGGGAACAACATCCAGCTGA
CCTGCCAATCAAAGGAGGGCTCACCAACCCCTCAGTACAGCTGGAAGAGGTACAACATCCTGAATCAGGAGCAGC
CCCTGGCCCAGCCAGCCTCAGGTCAGCTGTCTCCCTGAAGAATATCTCCACAGACACATCGGGTTACTACATCT
GTACCTCCAGCAATGAGGAGGGGACGCAGTTCTGCAACATCAGCGTGGCCGTCAGATCTCCCTCCATGAACGTGG
CCCTGTATGTGGGCATCGCGGTGGGCGTGGTTGCAGCCCTCATTATCATTGGCATCATCATCTACTGCTGCTGCT
GCCGAGGGAAGGACGACAACACTGAAGACAAGGAGGATGCAAGGCCGAACCGGGAAGCCTATGAGGAGCCACCAG
AGCAGCTAAGAGAACTTTCCAGAGAGAGGGAGGAGGAGGATGACTACAGGCAAGAAGAGCAGAGGAGCACTGGGC
GTGAATCCCCGACCACCTCGACCAGTGAAGGCCAGCAGCAGAGGGCGCGGAGGAAGGGTTAGGGGTTTATTTC
TCCCGCTTCTGGCCTCCCTTCTCCTTTCTAAGCCCTGTTCTCCTGTCCCTCCATCCCAGACATTGATGGGGACA
TTTCTTCCCAGTGTGAGCTGTGGGGAACATGGCTGGCCTGGTAAGGGGGTCCCTGTGCTGATCCTGCTGACCTC
ACTGTCTGTGAAGTAACCCCTCCTGGCTGTGACACCTGGTGCGGGCCTGGCCCTCACTCAAGACCAGGCTGCAG
CCTCCACTTCCCTCGTAGTTGGCAGGAGCTCCTGGAAGCACAGCGCTGAGCATGGGGCGCTCCCACTCAGAACTC
TCCAGGGAGGCGATGCCAGCCTTGGGGGGTGGGGGCTGTCTGCTCACCTGTGTGCCAGCACCTGGAGGGGCAC
CAGGTGGAGGGTTTGCACTCCACACATCTTCTTGAATGAATGAAAGAATAAGTGAGTATGCTTGGGCCCTGCAT
TGGCCTGGCCTCCAGCTCCCCTCCCTTTCCAACCTCACTTCCCGTAGCTGCCAGTATGTTCCAAACCCCTCCTGG
GAAGGCCACCTCCCCTCCTGTGCACAGGCCCTGGGGAGCTTTTGCCACACACTTTCCATCTCTGCCTGTCAA
TATCGTACCTGTCCCTCCAGGCCATCTCAATCACAAGGATTCTCTAACCCTATCCTAATTGTCCACATACGT
GGAAACAATCCTGTACTCTGTCCCACGTCCAATCATGGGCCACAAGGCACAGTCTTCTGAGCGAGTGCTCTCAC
TGTATTAGAGCGCCAGCTCCTTGGGGCAGGGCCTGGGCCTCATGGCTTTTGCTTTCCCTGAAGCCCTAGTAGCTG
GCGCCCATCCTAGTGGGCACTTAAGCTTAATTGGGGAACTGCTTTGATTGGTTGTGCCTTCCCTTCTCTGGTCT
CCTTGAGATGATCGTAGACACAGGGATGATCCCACCCAAACCCACGTATTCATTAGTGAGTTAAACACGAATT
GATTTAAAGTGAACACACACAAGGGAGCTTGCTTGACAGATGGTCTGAGTTCTTGIGTCTGGTAAATTCCTCTCCA
GGCCAGAATAATTGGCATGTCTCCTCAACCCACATGGGGTTCCCTGGTTGTTCCCTGCATCCCGATAACCTCAGCCCT
GGCCCTGCCAGCCCATTTGGGCTCTGGTTTTCTGGTGGGGCTGTCTGTGCTGCCCTCCCACAGCCTCCTTCTGTT
TGTCGAGCATTTCTTCTACTCTTGAGAGCTCAGGCAGCGTTAGGGCTGCTTAGGTCTCATGGACCAGTGGCTGGT
CTCACCCAACTGCAGTTTACTATTGCTATCTTTCTGGATGATCAGAAAAATAATTCCATAAATCTATTGTCTAC
TTGCGATTTTTTAAAAAATGTATATTTTATATATATTGTTAAATCCTTTGCTTCATTCCAAATGCTTTAGTAA
TAATAAAATTGTGGGTGG

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FIGURE 563

MVGKMWPVLWTLCAVRVTVD AISVETPQDVLRASQGKSVTL PCTYHTSTSSREGLIQWDKLLLTHTERVVIWPF S
NKNYIHGELYKNRVSI SNNAEQSDASITIDQLTMADNGTYECSVSLMSDLEGNTKSRVRLVLVPPSKPECGIEG
ETIIIGNNIQLTCQSKEGSPTPQYSWKRYN ILNQEQLAQPASGQPVSLKNISTDTSGYYICTSSNEEGTQFCNIT
VAVRSPSMNVALYVGIAVGVAALIIIGII IYCCCCRGKDDNTEDKEDARPNREAYEEPPEQLRELSREREEDD
YRQEEQRSTGRES PDHLDQ

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FIGURE 564A

GAATTCGGGGCAGCATCATCAAGGCACATAGATTCTCTCTTTGAACAATGCAGCTGCTGCAGGGGATGGGGAAGG
GATGGCACTGGCAATTCAAGACTGCCTTTCTACTTCTTCAGTGCCTCTTTCACCAATATGAAGTTAAAACCAGG
ATCCTTCAAACCAAAAATGTGGTGGAAGAAAGAAAACCGTGTCTTTCAGCAGCATGCCATCGGAAAAGAAAATTA
GCAGTGCAAAATGACTGCATCAGCTTCATGCAAGCTGGCTGTGAGTTGAAGAAAGTCCGGCCAAATCTCGCATT
ACAACCGTTTTTTCACTCTGGACACAGACCTTCAAGCTCTTCGCTGGGAACCTTCAAAGAAAGACCTCGAGAAAG
CCAAGCTTGATATTTCTGCCATAAAAGAGATCAGACTGGGGAAAAACACGGAAACATTTACAAACAATGGCCTTG
CTGACCAGATCTGTGAGGACTGTGCCTTTTCCATACTCCACGGGGAAAACATGAGTCTCTGGACCTAGTTGCCA
ATTCAGCAGATGTGGCAAACATCTGGGTGTCTGGGTTACGGTACCTGGTTTTCTCGAAGTAAGCAGCCTCTTGATT
TTATGGAGGGCAACCAGAACACACCACGGTTCATGTGGTTGAAAACAGTGTGTTGAAGCAGCAGATGTTGATGGGA
ATGGGATTATGTTGGAAGACACCTCTGTAGAGTTAATAAAACAACTCAACCCTACTCTGAAGGAAGCCAAGATCA
GGTTAAAGTTTAAAGAAATCCAGAAGAGCAAGGAAAACTAACCAACCGCGTGACCGAAGAGGAATTTTGTGAAG
CTTTTTGTGAACCTTGCACACAGGCCAGAAGTGATTTCTTACTTGTACAGATATCTAAAAACAAAGAATATTTGG
ATGCCAATGATCTCATGCTCTTTTTAGAAAGCTGAGCAAGGAGTCAACCATATCACCGAGGATATATGCTTAGACA
TCATAAGGAGATACGAACCTTTCTGAAGAGGGACGTCAAAAAGGGTTTCTTGCAATTGATGGCTTTACCCAGTATT
TATTGTATCAGAATGTGACATTTTGTATCTGAGCAAAAGAAGGTTGCCCAAGATATGACCCAGCCATTATCTC
ACTACTATATCAATGCCTCTCATAACACCTATCTAATAGAAGACCAGTTCAGGGGGCCAGCTGACATCAATGGGT
ACATTAGAGCTTTGAAATGGGCTGTGCAAGCGTTGAACCTCGATGTAAGTGATGGTTGAGATAATGAACCAATCC
TTTGTAATCGAAATAACATGACAACCCATGTTTCTTTCGAAGTGTATAGAGGTAATAAATAAATTTGCCTTTG
TTGCTTCTGAATACCCACTCATTCTTTGCTTGGGAAATCACTGCTCTTGGCCGACGAGAAGGTAATGGCTCAAC
AGATGAAAAAGGCTTTGGCAATAAACTCTATACTGAAGCACCTTGGCCCTCAGAATCCTACCTCCCATCACCAG
AAAAATTAAAAAGAATGATCATTGTGAAAGGAAAGAAGTTGCCTTCTGATCCAGATGTGTTAGAAGGAGAAGTAA
CAGATGAAGATGAAGAAGCTCAAAATGTCTCGAAGGATGTGGTAGATTACAATGGTGAGCAGAAGCAAAATCCGAC
TCTGTAGGGAGCTCTGTGATTTGGTGTCTATTTGTAAATCTGTTCAATACAGGGATTTTGAACATCTATGAAA
GCCAAACTATTGGGAAATGTGTTCAATTTAGTGAACAGAGGCCAGCCGATTGCAAAATGAGTACCCAGAGGATT
TTGTTAATTATAATAAGAAGTTCTTATCAAGAATCTATCCAAGTGCCATGAGGATCGATTCCAGTAACTTGAATC
CACAGGACTTTTGGAAATTGTGGCTGTGAGATTGTAGCAATGAATTTTCAGACTCCGGGTCCAATGATGGACCTTC
ACACGGGCTGGTTTCTTCAAACCGGGGATGTGGTTAAGTTCTAAGGCCGTCTATAATGCGAGATGAAGTTTCTT
ACTTCAGCGCAAAATACAAAGGGCATTCTACCTGGGGTGTCTCCTCTAGCTCTTTCATATCAAGATCATCAGTGGTC
AGAATTTCCCAAAGCCCAAGGGAGCTTGTGCCAAAGGGGATGTATAGATCCCTATGTTTGTATAGAGATACACG
GAATTCAGCGGATTGTTTCGGAACAAAGAAGTAAACTGTACAGCAAAACAGTGATAATCCTATTTTGTATGAAA
CTTTTGAGTTCCAAGTAAACCTACCTGAGCTGGCCATGATCCGTTTTGTTGTTCTGGATGATGACTACATTGGGG
ATGAGTTTATAGGGCAATATACGATACCATTTGAATGTTTGCAGCCTGGATATCGGCATGTTCCCTTGCCTTCTT
TTGTGGGTGACATCATGGAGCACGTAACCCCTTTTGTCCACATAGCAATAACTAATCGAAGTGGAGGAGGAAAGG
CACAGAAGCGCAGTCTTTCAGTGAGAATGGGGAAGAAAGTTCCGGGAATATACCATGCTCAGGAATATCGGTCTTA
AAACCATTGATGACATCTTTAAATAGCGGTTTATCCATTACGAGAAGCCATAGATATGAGAGAAAATATGCAGA
ATGCAATCGTGTCTATTAAGGAACATGTGGACTCCCTCCAATTGCCAGTCTGAAGCAGTGCCTGTTAACTCTGT
CATCTCGGCTCATCACCAGTGACAATACTCCTTCAGTCTCACTTGTGATGAAAGACAGCTTTCCTTACCTGGAGC
CTCTGGGTGCAATTCAGATGTGCAGAAAAAGATGCTGACTGCTTATGATCTGATGATTCAAGAGAGCCGGTTTC
TCATAGAAATGGCGGACACAGTCCAGGAAAAGATTGTACAGTGTGAGAAAGCAGGGATGGAGTTCCATGAAGAAC
TTCATAATTTGGGGGCAAAAGAAGGCTTGAAGGGAAGAAAACCAACAAAGCAACTGAGAGCTTTGCTTGAACA
TTACAGTATTGAAGGGCCAAGGAGATCTGTTGAAGAATGCCAAGAATGAAGCTATAGAAAACATGAAGCAGATCC
AGCTGGCATGCCTGTCTGTGGACTGAGTAAAGCCCCCAGCAGCAGTGTGAGGCCAAGAGCAAGCGCAGCCTGG
AAGCCATAGAGGAGAAGGAAAGTAGTGAGGAGAATGGGAAGCTGTGACTCTGGGCATTATCGACACGTTCAACCA
TCTTATCAAGGACTCTGGTTTCTCATTCTTGTCTTTCTTTTAAATGTTTTATAAGTTTCAAAAATGGTGCCCT
ATATGGGGTATTGGACATAGATATTTTCACAATGTCAGTATTTTCACTGTAGTTAATTTATCTAAATTAAGCCCTT
TAGTATCAGTGTGTTTTAAATCTGAGACATGTGTCAACACCCCTGTGTGATGCCTGTGGAAGAGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGGCAGAGAGAGAGAAAGAGAGAGAGAGAAATCTGTTAAATCTATTCT
GTGTTGCATTATTCATTTAGTGAGTTATCCTTGATCATTTTGGGACAATTGTTTTAATCTGAAATCTAAAGAG

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FIGURE 564B

CACTTACTGTAACCTGTTGCTGTGTTTAATTTGACTTCTCTGCCTTTGACATTTAATTTAGTGATCTTAGCATAG
CTTATTATTGAAGGAAGCCAAATTTATCAAAGCATAACATGTTTTGGTAGATTAAATATAGATTAGAAAAATTCCT
AAGAATCAGAGTAGAAATAAAAGTGAATGAAAGATTAAACAGATGATGAGAATTTCTAAAAAGATTAGCAAGGTC
ATTTCTTCAGTCAGAAAACCTTAAAAAATATTTATTAATAAAATCAATTTTAGGAAGTTTCTGTAGTCATTT
ACTAAACATATGATTTCACTAGAAAAGCTGATCATAAGTGAATTTATACCTACCTGTGTGGCTACTCTGAAACAC
ACTGAAAGCTCTGTTGCAATTAGGATTTGATGTGACATAATATTGTTGTATAATTTGAGATTGTAGGAAGGTC
TCATTTCTCCAAGCTGAGAGTCTAGCACTCATTTTCTATAACAGATATGGCAGCTTAGAGGTGTTGGCTTTGTTT
GGATGTAATTTTAGGGGTACTAAAATTTAAATTTAAAGATAATTGTTCAACAATATCATATCATCACATTGAGC
TGATATAAATTTCTGTGGGTCCGATAATATCTTTGTGATAATTTAAGAGCTAACCAGTTACCACACATCTATGATA
TAACCCTAACACACACAGAAAGCATAACATGCAAAAAGAAATGACTAATTAGGGTACATTTATAATTGCATCTAGG
TAATTTTTACCCTAATGTCTTCATAAAGTACTTGAGTGTAAATGTTTGTACCTCCAACAGAACTAAATGTTCTAT
GGTTATGAAAGAATATATTTATTTAAAGCATTGCTTTTATTTTGAAGCTTCTTAATTAATTTGATTAAACAAAT
ATGCTAATTTGGGGAAACCTAGAGAAGATAATTGTTGAAATTTGCAAATATAAACATCTCCTAT

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FIGURE 565

MPSEKKISSANDCISFMQAGCELKKVRPNSRIYNRFFTLDTLQALRWEPSSKKDLEKAKLDISAIKEIRLGKNT
TFTNGLADQICEDCAFSILHGENYESLDLVANSADVANIWVSGRLYLVSRSKQPLDFMEGNQNTPRFMWLKTVF
EAADVDGNGIMLEDTSVELIKQLNPTLKEAKIRLKFKEIQKSKEKLTRVTEEEFCEAFCELCRPEVYFLLVQI
SKNKEYLDANDLMLFLEAEQGVTHITEDICLDIIRRYELSEEGRQKGF LAIDGFTQYLLSSECDIFDPEQKKVAQ
DMTQPLSHYYINASHNTYLIEDQFRGPADINGYIRALKMGCRSVELDVSDGSDNEPILCNRRNMTHVSFRSVIE
VINKFAFVASEYPLILCLGNHCSLPQQKVMAQQMKKVFGNKLYTEAPLPSESYLP SPEKLKRMIIVKGKKLP SDP
DVLEGEVTDDEEEAQMRRMSVDYNGEQKQIRLCRELSDLVSICKSVQYRDFELSMKSQNYWEMCSFSETEASRI
ANEYPEDFVNYNKKFLSRIYPSAMRIDSSNLNPQDFWNCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPS
IMRDEVSYFSANTKILPGVSPLALHIKIISGQNFPPKPGACAKGDVIDPYVCIEIHGIPADCSEQRKTKVQQNS
DNP IFDETFEFQVNLPELAMIRFVVLDDDYIGDEFIGQYTIPFECLQPGYRHVPLRSFVGDIMEHVTLFVHIAIT
NRSGGGKAQKRSLSVRMGKKVREYTMRLNIGLKTIDDIFKIAVHPLREAIMRENMQNAIVSIKELCGLPPIASL
KQCLLTSSRLITSDNTPSVSLVMKDSFPYLEPLGAIPDVQKMLTAYDLMIQESRFLIEMADTVQEKIVQCQKA
GMEFHEELHNLGAKEGLKGRKLNKATESFAWNITVLKGQGDLLKNAKNEAIENMKQIQ LACLSCGLSKAPSSAE
AKSKRSLEAIEEKESSEENGKL

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FIGURE 566

GGCGGTCCCTGTTCTCCCGCTCAGGTGCGGCGCTGTGGCAGGAAGCCACCCCTCGGTGCGCCGGTGCGCGGG
GCTGTTGCGCCATCCGCTCCGGCTTTCTGAACCGCACCTGGGACGGCCAGAGACGCTCCAGCGCGAGTTCCCTC
AAATGTTTTCTGCGTTGCCAGGACCGTCCGCCGCTCTGAGTCATGTGCGAGTGGGAAGTCGCACTGACACTGAG
CCGGGCCAGAGGGAGAGAGCCGAGCGCGGCGCGGGGCCAGGGACTCGCAGTGTGTGTAGAGAGCCGGGCTCCT
GCGGATGGGGGCTGCCCCGGGGCTGAGCCCGCTGCCCGCCACCGCCCCGCCCCGCCCCCTGCCACCCCTGCC
GCCCCGTTCCATTAGCCTGTCCGCCCTGCGGGACCATGGAGTGGTAGCCGAGGAGGAAGCATGCTGCCCCGTCG
GCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCGGGAGCGGCGCTGGCCCCAAGGCGCTGCCCTGCGCAGGAGG
TGGCAAGAGGCGTGCTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACCTGCCCGGGGTAGAGCCGGAAGACA
ATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCCACCCAGCAGATGGGCTGGCATGGGAAGGA
GGCTGCTGCTGAGGTGGTGCAGCTCCACGACTCTGGAACTATTCTGCTACCGGGCCGCGCCGCGCCAGCTGGGA
CTGTGCACTTGCTGGTGGATGTTCCCCCGAGGAGCCCCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATG
TTGTTTGTGAGTGGGGTCTCGGAGCACCCCATCCCTGACGACAAAGGCTGTGCTCTTGTTGAGGAAGTTTCAGA
ACAGTCCGGCCGAAGACTTCCAGGAGCCGTGCCAGTATCCAGGAGTCCAGAAGTTCTCCTGCCAGTTAGCAG
TCCCGGAGGGAGACAGCTCTTTCTACATAGTGTCATGTGCGTCCGAGTAGTGTGCGGAGCAAGTTTCAGCAAAA
CTCAAACCTTTAGGGTTGTGAATCTTGACGCTGATCCGCTGCCAACATCACAGTCACTGCCGTGGCCAGAA
ACCCCGCTGGCTCAGTGTCACTGGCAAGACCCCACTCCTGGAACATCATCTTTCTACAGACTACGGTTTGAGC
TCAGATATCGGGCTGAACGGTCAAAGACATTACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCC
ACGACGCTGGAGCGGCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGAGTTCCGGCAAGGCGAGTGGAGCG
AGTGGAGCCCGAGGCCATGGGCACGCCTTGGACAGAATCCAGGAGTCCCTCCAGCTGAGAACCAGGTTGCCACCC
CCATGCAGGCACTTACTACTAATAAAGACGATGATAATATCTCTTCCAGAGATTCTGCAAAATGCGACAAGCCTCC
CAGTGCAAGATTCTTCTTCACTACCCTGCCACATTCTGGTTGCTGGAGGGAGCCTGGCCTTCGGAACGCTCC
TCTGCATTGCCATTGTTCTGAGGTTCAAGAAGACGTGGAAGCTGCGGGCTCTGAAGGAAGGCAAGACAAGCATGC
ATCCGCGTACTCTTTGGGGCAGCTGGTCCCGGAGAGGCCCTCGACCCACCCAGTGCTTGTTCTCTCATCTCCC
CACCGGTGTCCCCCAGCAGCTGGGGTCTGACAATACCTCGAGCCACAACCGACCCAGATGCCAGGGACCCACGGA
GCCCTTATGACATCAGCAATACAGACTACTTCTTCCCCAGATAGCTGGCTGGGTGGCACCAGCAGCCTGGACCCCT
GTGGATGACAAAACACAAACGGGCTCAGCAAAAGATGCTTCTCACTGCCATGCCAGCTTATCTCAGGGGTGTGCG
GCCCTTGGCTTACGGAAGAGCCTTGGCGAAGGTTCTACGCCAGGGGAAAATCAGCCTGCTCCAGCTGTTACAGT
GGTTGAGGTTTCAAACCTCCCTTTCCAAATGCCAGCTTAAAGGGGTTAGAGTGAACCTGGGCCACTGTGAAGAG
AACCATATCAAGACTCTTTGGACACTCACACGGACACTCAAAGCTGGGCAGGTTGGTGGGGGCTCGGTGTGGA
GAAGCGGCTGGCAGCCACCCCTCAACACCTCTGCACAAGCTGCACCTCAGGCAGGTGGGATGGATTTCAGCC
AAAGCCTCCTCCAGCCGCCATGCTCCTGGCCCACTGCATCGTTTCACTCTTCCAACTCAAACCTTAAACCCCAAG
TGCCCTTAGCAAATTCTGTTTTCTAGGCCTGGGGACGGCTTTACTTAAACGCCAAGGCCTGGGGGAAGAAGCT
CTCTCCTCCCTTTCTTCCCTACAGTTCAAAAACAGCTGAGGGTGAGTGGGTGAATAATACAGTATGTCAGGGCCT
GGTCGTTTTCAACAGAATTATAATTAGTTCCTCATTAGCAGTTTGCCTAAATGTGAATGATGATCCTAGGCATT
TGCTGAATACAGAGGCAACIGCATTTGGCTTTGGGTTGCAGGACCTCAGGTGAGAAGCAGAGGAAGGAGAGAGAG
GGGCACAGGGTCTTACCATCCCTGTAGAGTGGGAGCTGAGTGGGGGATCACAGCCTCTGAAAACCAATGTTCT
CTCTTCTCCACCTCCCACAAAGGAGAGCTAGCAGCAGGGAGGGCTTCTGCCATTCTGAGATCAAAACGGTTTTA
CTGCAGCTTTGTTTGTGTGCTGAGCTGAACCTGGGTAACTAGGGAAGATAATATTAAGGAAGACAATGTGAAAAGAA
AAATGAGCCTGGCAAGAATGCGTTTAACTTGGTTTTTAAAAAAGTGTGACTGTTTTCTCTTGAGAGGGTGGA
TATCCAATATTCGCTGTGTGTCAGCATAGAAGTAACTTACTTAGGTGTGGGGGAAGCACCATAACTTTGTTTAGCCC
AAAACCAAGTCAAGTGAAAAAGGAGGAAGAGAAAAAATATTTCTGCCAGGCATGGAGGCCACGCACTTCGGG
AGGTGAGGCAGGAGGATCACTTGAGTCCAGAAGTTTGAGATCAGCCTGGGCAATGTGATAAAACCCCATCTCTA
CAAAAAGCATAAAAATTAGCCAAGTGTGGTAGAGTGTGCCTGAAGTCCCAGATACTTGGGGGGCTGAGGTGGGAG
GATCTCTTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGGTGACAGA
GCAAGTGAGACCTGTCTC

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FIGURE 567

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWA
GMGRRLLLRSVQLHDSGNYSYRAGRPA GTVHLLVDVPPEEPQLSCFRKSPLSNVVCEWGPRSTPSLTTKAVLLV
RKFQNSPAEDFQEPCQYSQESQKFSCQLAVPEGDSSFYIVSMCVASSVGSKFSTQTFQCGILQPDPPANITVT
AVARNPRWLSVTWQDPHSWNSSFYRLRFELRYRAERSKFTTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEFGQ
GEWSEWSPEAMGTPWTESRPPAENEVSTPMQALTNNKDDNLFRRSANATSLPVQDSSSVPLPTFLVAGGSLA
FGTLLCIAIVLRFKKTWKLRLALKEGKTSMHPPYSLGQLVPERPRPTPVLVPLISPPVSPSSLGSDNTSSHNRPDA
RDPRSPYDISNTDYFFPR

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FIGURE 568

CAAGAGAGAGAGAGAGGTGCAAGCCCCAAAGCGAGCGACATGTCCCTTTGGGGAGCAGTCCCTCTGCACCCCAGA
GTGAGGAGGACGCAGGGGTGAGAGGTGGCTACAGGGCAGGCAGAGGAGGCACCTGTAGGGGGTGGTGGGCTGGTG
GCCCAGGAGAAGTCAGGAAGGGAGCCCAGCTGGTGACAAGAGAGCCCAGAGGTGCCCTGGGGCTGAGTGTGAGAGC
CCGGAAGATTTTCAGCCATGCCTCACAGCTCCGACAGCAGTGAAGTCCAGCTTCAGCCGCTCTCTCCCCCTGGCAA
ACAGGACTCATCTGATGATGTGAGAAGAGTTTCAGAGGAGGGAGAAAAATCGTATTGCCGCCCAGAAGAGCCGACA
GAGGCAGACACAGAAGGCCGACACCCCTGCACCTGGAGAGCGAAGACCTGGAGAAACAGAACGCGGCTCTACGCAA
GGAGATCAAGCAGCTCACAGAGGAAGTGAAGTACTTCACGTGGTGCTGAACAGCCACGAGCCCCTGTGCTCGGT
GCTGGCCGCCAGCACGCCCTCGCCCCCGAGGTGGTGTACAGCGCCCACGCATTCCACCAACCTCATGTGAGCTC
CCCGCGCTTCCAGCCCTTGAGCTTCCGATGCGGGGAGAGCAGAGCCTCGGGAGGGGCACACAGACTGTGGCAGAGC
TGCGCCCATCCCGCAGAGGCCCTGTCCACCTGGAGACCCGGAGACAGAGGCCTGGACAAGGAGTGAACACGGGA
ACTGTACGACTGGAAGGGCGTGAGGCCTCCCAGCAGTGCCGCAGCGTTTCGAGGGGCGTGTGCTGGACCCACC
ACTGTGGGTTGCAGGCCCAATGCAGAAGAGTATTAAGAAAGATGCTCAAGTCCCATGGCACAGAGCAAGGCGGGC
AGGGAACGGTTATTTTTCTAAATAAATGCTTTAAAGA

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FIGURE 569

MPHSSDSSDSSFSRPPPGKQDSSDDVRRVQRREKNRIAAQKSQRQTQKADTLHLESEDLEKQNAALRKEIKQL
TEELKYFTSVLNSHEPLCSVLAASTPSPPEVVYSAHAFHQPHVSSPRFQP

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FIGURE 570

CGGAAGGTGTGAGCCGCAAACCCAGCGGAGGGCGGGAAGAAGGAGGAGGCCTCTAGGGTGXTCGGGGGACTGGGG
GCCCCGCCGGCAGAGGTCCCTCGGCCTCCTGACTGACTGACTGCGGCCGCTCCGGCCAGGACGCTGGGAGCTGC
CTGCGGGAAGGTGCGGGGAGCGGAGCCATGGCCTCCGGTGCGTATAACCCGTATATAGAGATAATTGAACAACCC
AGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAGCAGGCAGCATTCCAGGGGAGCACAGCACA
GACAACAACCGAACATACCCCTTCTATCCAGATTATGAACTATTATGGAAAAGGAAAAGTGAGAATTACATTAGTA
ACAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCTACTATGAAGCA
GAATTTGGACAAGAACGCAGACCTTTGTTTTTCCAAATTTGGGTATTGATGTGTGAAGAAAAAGAAGTAAAA
GAAGCTATTATTACAAGAATAAAGGCAGGAATCAATCCATTCAATGTCCCTGAAAAACAGCTGAATGATATTGAA
GATTGTGACCTCAATGTGGTGAGACTGTGTTTTCAAGTTTTCTCCCTGATGAACATGGTAATTTGACGACTGCT
CTTCTCTCTGTTGTCTCGAACCCAAATTTATGACAACCGTCTCCAAATACGCAGAATTAAGGATTTGTCTGTGA
AACAAGAATTGTGGAAGTGTGAGAGGAGGAGATGAAATATTCTACTTTGTGACAAAGTTCAGAAAGATGACATA
GAAGTTCGTTTTGTGTTGAACGATTGGGAAGCAAAAGGCATCTTTTCAAGCTGATGTACACCGTCAAGTAGCC
ATTGTTTTTCAAACTCCACCATATTGCAAAGCTATCACAGAACCCGTAACAGTAAAAATGCAGTTGCGGAGACCT
TCTGACCAGGAAGTTAGTGAATCTATGGATTTTAGATATCTGCCAGATGAAAAGATACTTACGGCAATAAAGCA
AAGAAACAAAAGACAACCTCTGCTTTTCCAGAACTGTGCCAGGATCACGTAGAAACAGGGTTTCGCCATGTTGAC
CAGGATGGTCTTGAACCTCCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGTTAAT
TTTTCTGAGAGACCAAGACCTGGTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGAACCAACTTG
TTTTCTCATGATGCAGTTGTGAGAGAAATGCCTACAGGGGTTTCAAGTCAAGCAGAATCCTACTATCCCTCACCT
GGGCCCATCTCAAGTGGATTGTACATCATGCCTCAATGGCACCTCTGCCTTCTTCAAGCTGGTCAATCAGTGGCC
CACCCACCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCTTCTAATTCGCAA
GGTATCCCACCATTCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCC
GATGACATAGTCGGAATGGAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTG
TCTAATTGTTCTGTGAATATGATGACAACCAGCAGTGACAGCATGGGAGAGACTGATAATCCAAGACTTCTGAGC
ATGAATCTTGAACCCCTCATGTAATTCAGTGTTAGACCCAGAGACTTGAGACAGCTCCATCAGATGTCCTCT
TCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTCACAATCAGATGCATTTGAGGGATCTGAC
TTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAACAGTCATGGTTTT
GTTCAAGATAGTCAGTATTCAGGTATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTT
TTTCAAGTATAAATTTGCAAGATTTAAATCCTTTTAAATCTTGATACCACCTATATAGATGCAGCATTTTGTATTT
GTCTAACTGGGGATATAATACTATATTTATACTGTATATATAATACTGACTGAGAATATAATACTGTATTTGAGA
ATATAAAAACTTTTTTTCAGGGAAGAAGCATACAACCTTTGGACATAGCGAATACAAAATTGGAAGCTGTCATAAA
AAGACAACCTCAGAGGCCAGGCGCAGGXGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATC
ACTTGAGACCAAG

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FIGURE 571

MASGAYNPYIEIIEQPRQRMFRYKCEGRSAGSIPGEHSTDNNRTYPSIQIMNYYGKGKVRITLVTKNDPYKPH
PHDLVGKDCRDGYEAEFGQERRPLFFQNLGIRCVKKKEVKEAII TRIKAGINPFNVPEKQLNDIEDCDLNVVRL
CFQVFLPDEHGNLTALPPVVSNIYDNRAPNTAELRICRVNKNCGSVRGGDEIFLLCDKVQKDDIEVRFVLNDW
EAKGIFSQADVHRQVAIVFKTPPYCKAITEPVTVKMQLRRPSDQEVSESMDFRYLPDEKDTYGNKAKKQKTLLF
QKLCQDHVETGFRHVDQDGLELLTSGDPPTLASQSAGITVNFPERPRPGLLGSIGEGRYFKKEPNLFSHDAVRE
MPTGVSSQAESYYPSPGPISGLSHHAPLPSSSWSSVAHPTPRSGNTNPLSSFSTRILPSNSQGIPFLRIP
VGNDLNASNACIYNNADDIVGMEASSMP SADLYGISDPNMLSNCSVNMMTTSSDSMGETDNPRLLSMNLENPSCN
SVLDPDLRQLHQMSSSSMSAGANSNTTVFVSQDAFEGSDFSCADNSMINESGPSNSTNPNSHGFVQDSQYSGI
GSMQNEQLSDSFPEFFQV

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FIGURE 572

GGCGCGGGGACGCGGGTTTCTGCCTCAGGCCCTGCCCTGCTCTACTCTGCGCTCTCTGCCCCGCGCCGCCGCCGCC
TCAGCCTCGGCCCTGCGCTGCGCGCCCCGGCCCGTGTGCCATGGCCCTGCCGCCCGCGAAGCCCCGCCGAGGCATCA
GAGCCGCTGCGACGGTGACGCCAGCCCGCCGTCCCCCGCGCGATGGAGCCTGGGACGGAAGCGCAGAGCCGACGG
CAGGCGCTGGAGGCCCCGAAGACGCCGAGGAGGCAGAGCACCGCGCGCCGAGCGCAGACCCGAGAGCTTTACCAC
TCCTGAAGGCCCTAAACCCCGTTCCAGATGCTCTGACTGGGCAAGTGCAGTTGAAGAAGATGAAATGAGGACCAG
AGTTAACAAAGAAATGGCAAGATATAAAAGGAACTCCTCATCAATGACTTTGGAAGAGAGAGAAAATCATCATC
AGGAAGTTCTGATTCAAAGGAGTCTATGTCTACTGTGCCGGCTGACTTTGAGACAGATGAAAGTGTCTAATGAG
GAGACAGAAGCAGATCAACTATGGGAAGAACAATTGCCTACGATCGTTATATTAAAGAAGTCCCAAGACACCT
TCGACAACCTGGCATTTCATCCCAAGACCCCTAATAAAATTAAGAAGTATAGTCGACGTTTCATGGGACCAGCAAAT
CAAACCTCTGGAAGGTGGCTCTGCATTTTGGGATCCTCCAGCGGAAGAAGGATGTGATTGCAAGAAATACACCC
TGTAGACCTTGAATCTGCAGAAAGCAGCTCCGAGCCCCAGACCAGCTCTCAGGATGACTTTGATGTGTACTCTGG
CACACCCACCAAGGTGAGACACATGGACAGTCAAGTGGAGGATGAGTTTGATTGGGAAGCTTGTTAACTGAACC
CTTGAGAGACTTCTCAGCCATGAGCTAACTGCCCCCTGGCGGCCAGGAAGAGAAACAGCTCCTCCCCGACTAGGT
GGAAGGCTGGCCAGGCACCAAGCATGTGTGTGCACCTGTACCTGGTGGTTTCTCTGTTAGCAGTCCATTAGCTCA
TGCTGAATTATTTTTGCCTTACTTTCTTAAGAAACATTAATTTTATGTATAGTGAGTATATTTGCATGTTTTAA
ATTGTAATGGAGCTAAGTCCAAGAAAGTACTTGAAGCTCTCTCCAGCGAGCTTAATTGCGTAATCCCTGTTGT
CCTCCAGGGTAAGCTGACACGTCTACATAACTGGTTTTCCACAGGCATCTTCAGTTATTGCTTGTGAGGTGGACT
GTTTTGGATTTAACCATGTAATCCATGGGACCAATTGAGAGTCAGCTACTTTTATAGGCATCAAAGTATTCTCAG
ACACCTTTAATATCTTTATGGAACTTAATTTTTGGCCTTTTATCAATATGTCATAACAGCATTCTGAAGTCAGA
CATTGTTAAATTGAGCTATTAACTAATGAGTTTTATGTAAGTTATATGGTCTTAATTTGGTACTTGTAAATAGC
ACTAGTTAGACTCTTTAGAATACTCCAAGAGTTAGGGCAGCAGAGTGGAGCGATTTAGAAAGAACATTTTAAAC
AATCAGTTAATTTACCATGTAAAATTGCTGTAATGATAATGTGTACAGATTTTCTGTTCAAATATTCAATTGTA
AACTTCTGTTAAGACTGTTACGTTTCTATTGCTTTTGTATGGGATATTGCAAAAATAAAAGGAAAGAACCCCTC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 573

MACRPRSPPRHQSRCDGDASPPSPARWSLGRKRRADGRRWRPEDAEAEHGAERRPESFTTPEGPKPRSRCSDW
ASAVEEDEMTRVKNEMARYKRKLLINDFGREKSSSGSSDSKESMSTVPADFETDESVMRRQKQINYGKNTIA
YDRYIKEVPRHLRQPGIHPKTPNKFKKYSRRSWDQQIKLWKVALHFWDFPAEEGCDLQEIHVPDLESAESSSEPQ
TSSQDDFDVYSGTPTKVRHMDSQVEDEFDLEACLTEPLRDFSAMS

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FIGURE 574

AAGCGGCAGGAGCAGCGTTGGCACCGGCGAACCATGGCTGGGATTTTCTATTTGCGCCTATTTTCGTGTCTCTTC
GGGATTTGCGACGCTGTACAGGTTCCAGGGTATACCCCGCAATGAAGTTACCTTATTGGATTCCAGATCTGTT
CAGGGAGAAGTTGGGTGGATAGCAAGCCCTCTGGAAGGAGGGTGGGAGGAAGTGAGTATCATGGATGAAAAAAT
ACACCAATCCGAACCTACCAAGTGTGCAATGTGATGGAACCCAGCCAGAATAACTGGCTACGAAGTATTGGATC
ACCCGAGAAGGGGCTCAGAGGGTGTATATTGAGATTAAATTCACCTTGAGGGACTGCAATAGTCTTCCGGGCGTC
ATGGGGACTTGCAAGGAGACGTTTAACTGTACTACTATGAATCAGACAACGACAAAGAGCGTTTCATCAGAGAG
AACCAGTTTGTCAAATTGACACCATGCTGCTGATGAGAGCTTCACCAAGTGGACATTGGTGACAGAATCATG
AAGCTGAACACCGAGATCCGGGATGTAGGGCCATTAAAGCAAAAAGGGGTTTACCTGGCTTTTCAGGATGTGGGG
GCCTGCATCGCCCTGGTATCAGTCCGTGTGTTCTATAAAAAGTGTCCACTCACAGTCCGCAATCTGGCCAGTTT
CCTGACACCATCACAGGGGCTGATACGTCTTCCCTGGTGAAGTTCGAGGCTCCTGTGTCAACAACCTCAGAAGAG
AAAGATGTGCCAAAAATGTACTGTGGGGCAGATGGTGAATGGCTGGTACCCATTGGCAACTGCCTATGCAACGCT
GGGCATGAGGAGCGGAGCGGAGAATGCCAAGCTTGCAAAATTGGATATTACAAGGCTCTCTCCACGGATGCCACC
TGTGCCAAGTGCCACCCACAGCTACTCTGTCTGGGAAGGAGCCACCTCGTGACCTGTGACCGAGGCTTTTTC
AGAGCTGACAACGATGCTGCCTCTATGCCCTGCACCCGTCCACCATCTGCTCCCCTGAAGTTGATTTCAAATGTC
AACGAGACATCTGTGAAGTTGGAATGGAGTAGCCCTCAGAATACAGGTGGCCGCCAGGACATTTCCCTATAATGTG
GTATGCAAGAAATGTGGAGCTGGTGACCCAGCAAGTGCCGACCCTGTGAAGTGGGGTCCACTACACCCACAG
CAGAATGGCTTGAAGACCACCAAAGTCTCCATCACTGACCTCCTAGCTCATACCAATTACACCTTTGAAATCTGG
GCTGTGAATGGAGTGTCCAAATATAACCCTAACCCAGACCAATCAGTTTCTGTCACTGTGACCACCAACCAAGCA
GCACCATCATCCATTGCTTTGGTCCAGGCTAAAGAAGTACAAGATACAGTGTGGCACTGGCTTGGCTGGAACCA
GATCGGCCCAATGGGGTAATCCTGGAATATGAAGTCAAGTATTATGAGAAGGATCAGAATGAGCGAAGCTATCGT
ATAGTTCCGACAGCTGCCAGGAACACAGATATCAAAGGCTGAACCCCTCTCACTTCCTATGTTTTCCACGTGCGA
GCCAGGACAGCAGCTGGCTATGGAGACTTCAGTGAGCCCTTGGAGGTTACAACCAACACAGTGCCTTCCCGGATC
ATTGGAGATGGGGCTAACTCCACAGTCCCTCTGGTCTCTGTCTCGGGCAGTGTGGTGTCTGGTGAATTTCTCATT
GCAGCTTTTGTATCAGCCGAGACGGAGTAAATACAGTAAAGCCAAACAAGAAGCGGATGAAGAGAAACATTTG
AATCAAGGTGTAAGAACATATGTGGACCCCTTTACGTACGAAGATCCCAACCAAGCAGTGCCGAGAGTTTGCCAAA
GAAATTGACGCATCCTGCATTAAAGATTGAAAAAGTTATAGGAGTTGGTGAATTTGGTGAGGTATGCAGTGGGCGT
CTCAAAGTGCCCTGGCAAGAGAGAGATCTGTGTGGCTATCAAGACTCTGAAAGCTGGTTATACAGACAAACAGAGG
AGAGACTTCTTGAGTGAGGCCAGCATCATGGGACAGTTTGACCATCCGAACATCATTCACTTGAAGGCGTGGTC
ACTAAATGTAAACAGTAATGATCATAACAGAGTACATGGAGAATGGCTCCTTGGATGCATTCTCAGGAAAAAT
GATGGCAGATTTACAGTCATTAGCTGGTGGGCATGCTTCGTGGCATTGGGTCTGGGATGAAGTATTTATCTGAT
ATGAGCTATGTGCATCGTGATCTGGCCGCACGGAACATCCTGGTGAACAGCAACTTGGTCTGCAAAGTGTCTGAT
TTTGGCATGTCCCGAGTGCTTGAGGATGATCCGGAAGCAGCTTACACCACCAGGGGTGGCAAGATTCTATCCGG
TGGACTGCGCCAGAAGCAATTGCCTATCGTAAATTCACATCAGCAAGTGATGTATGGAGCTATGGAATCGTTATG
TGGGAAGTGATGTCTACGGGGAGAGGCCCTATTGGGATATGTCCAATCAAGATGTGATTAAAGCCATTGAGGAA
GGCTATCGGTTACCCCTCCAATGGACTGCCCCATTGCGCTCCACCAGCTGATGCTAGACTGCTGGCAGAAGGAG
AGGAGCGACAGGCCATAATTTGGGCAGATTGTCAACATGTTGGACAACTCATCCGCAACCCCAACAGCTTGAAG
AGGACAGGGACGGAGAGCTCCAGACCTAACACTGCCTTGTGGATCCAAGCTCCCTGAATTCTCTGCTGTGGTA
TCAGTGGGCGATTGGCTCCAGGCCATTAAATGGACCGGTATAAGGATAACTTCACAGCTGCTGGTTATACCACA
CTAGAGGCTGTGGTGCACGTGAACCAGGAGGACCTGGCAAGAATTGGTATCACAGCCATCACGCACCAGAATAAG
ATTTTGAGCAGTGTCCAGGCAATGCCAACCCTAAATGCAGCAGATGCACGGCAGAATGGTTCCCGTCTGAGCCAGT
ACTGAATAAACTCAAACTCTTGAAATTAGTTTACCTCATCCATGCACTTTAATTGAAGAACTGCACCTTTTTTA
CTTCGTCTTCGCCCTCTGAAATTAAAGAAATG

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FIGURE 575

MAGIFYFALFSCFLGICDAVTGSRVYPANEVILLDSRSVQGELGWIASPLEGGWEEVSIMDEKNTPIRTYQVCNV
MEPSQNNWLRTDWITREGAQRVYIEIKFTLRDCNSLPGVMGTCKETFNLYYESDNDKERFIRENQFVKIDTIAA
DESFTQVDIGDRIMKLNTEIRDVGPLSKKGFYLAQDVGACIALVSVRVFYKKCPLTVRNLAQFPDTITGADTSS
LVEVRGSCVNNSEEKDVPKMYCGADGEWLVPIGNCLCNAGHEERSGECQACKIGYYKALSTDATCAKCPPHSYSV
WEGATSCTCDRGFFRADNDAASMPCTRPPSAPLNLSNVNETSVNLEWSSPQNTGGRQDISYNNVCKKCGAGDPS
KCRPCGSGVHYTPQQNGLKTTKVSITDLLAHTNYTFEIWAVNGVSKYNPNPDQSVSVTVTTNQAAPSSIALVQAK
EVTRYVALAWLEPDRPNGVILEYEVKYYEKDQNERSYRIVRTAARNTDIKGLNPLTSYVFHVRARTAAGYGDFS
EPLEVTTNTVPSRIIGDGANSTVLLVSVSGSVLVVILIAAFVISRRRSKYSKAKQEADEEKHLNQGVRTYVDPF
TYEDPNQAVREFAKEIDASCIKIEKVIGVGEFGEVCSGRLKVPKGREICVAIKTLKAGYTDKQRRDFLSEASIMG
QFDHPNIIHLEGVVTCKPKVMIITEYMENGSLDAFLRKNDRFTVIQLVGMLRGIGSGMKYLSDMYSYVHRDLAAR
NILVNSNLVCKVSDFGMSRVLEDDPEAAAYTRGGKIPIRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSYGERPY
WDMSNQDVIKAIIEGYRLPPPMDCPIALHQLMLDCWQKERSDRPKFGQIVNMLDKLIRNPNSLKRTGTSSRPNT
ALLDPSSPEFSAVVSVGDWLQAIKMDRYKDNFTAAGYTTLAUVHVNQEDLARIGITAIHQNKILSSVQAMRTQ
MQQMHGRMVPV

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FIGURE 576A

GATCAATACTAGAGCGCGCTGCACCCCTTTAGCGCGAGACCCCCCCAGCCAGCCCAACCCACCCACCCCGCA
CACGCCCCACCCCCCCACGACCCAGCCTCATACCGCACCAGCTGAGGCACCCAAGAGGATTACCCCTTGGGGCC
CTCTCCCGCCCCCAAAAAGAGAAGATCCCTTCTCTGGCCCATCCCTTCCCTTCTTCCCTCCCCCTCCCCC
GAACTTTCCCTCTCGCATGCTTTTCCCTGCACCACGGATCGCCTCTCGGATGCCGCTTGCTGGAAGCTGCGTT
AGGAGCGAGCGCGCGGCTGGCGCGGCTGGCGCGCGGCGGCAGCTCGGGAGTGCTATGACCGGCAAACTCGCC
GAGAAGCTGCCGCTGACCATGAGCAGTTTGCTAAACCAACTGCCTGACAATCTGTACCCCGAGGAGATCCCCAGC
GCGCTCAACCTCTTCTCCGGCAGCAGCGACTCGGTAGTCCATTACAATCAGATGGCTACAGAGAATGTAATGGAC
ATCGGTCTGACCAACGAGAAGCCCAACCCGGAACCTCTTACTCCGGCTCCTTCCAGCCAGCCCCCGGGAACAAG
ACCGTGACCTACTTGGGAAAGTTTCGCTTCGACTCCCTTCCAACCTGGTGCCAGGACAACATCATTAGCCTCATG
AGCGCCGCATCTTGGGGGTGCCCCCGGCTTCAGGGGCGCTAAGCACGCAGACGTCCACGGCCAGCATGGTGAC
CCACCGCAGGGTGACGTGGAGGCCATGTATCCCGCGCTACCCCCCTACTCCAACCTGCGGCGACCTCTACTCAGAG
CCCGTGCTTTTCCACGACCCCCAGGGCAATCCCGGGCTCGCTATTCCCCCAGGATTACCAATCGGCCAAGCCG
GCGTTGGACAGCAATCTCTTCCCATGATTCTGACTACAACCTCTACCACCACCCCAACGACATGGGCTCCATT
CCGGAGCACAAGCCCTTCCAGGGCATGGACCCCATCCGGGTCAACCCGCCCTTACTACCCCTCTGGAGACCATC
AAGGCATTCAAAGACAAGCAGATCCACCCGGGCTTTGGCAGCCTGCCCCAGCCGCGCTCACCTCAAGCCCATC
CGGCCCCGCAAGTACCCCAACCGGCTTAGCAAGACACCGCTCCACGAACGCCCCACGCTGCCCGGCCGAGGGC
TGCGACCGCGTTTTCAGCGTTTCGGACGAGCTGACCCGCGACCTGCGCATCCACACGGGCCACAAGCCCTTCCAG
TGCCGATCTGCATGCGGAGCTTCAGCCGAGCGACCACTCACCCTCACATCCGACTCATACGGGCGAGAAG
CCCTTTGCCTGCGAGTTCTGCGGGCGCAAGTTTGCGCGCAGCGACGAGCGCAAGCGCCACGCCAAGATCCACCTC
AAGCAAAAGGAGAAGAAGCGGAGAAGGGCGGTGCACCTCTGCATCCTCGGCGCCCCCGTGTCGTGGCCCCC
GTGGTCACCACCTGCGCTCGAGGATCGGGCCCCAGATCCCCACTTTTCCCTTCCAGTGCTCCCGGCTGCTAGC
CTGAAAGCAGCGGAAAGCCAGCCACGGAGGCGTAGGGGCCGCGCCCTGGCTCTCCATGGACGTGCGGCCCTT
GCTTCCCTTTCGATGCCCCCGGTTCCCAACCTTTACGCGCGCCAGCGGTGAGGGGCCAGGGCTGGAGGCGCTT
CCCCCTCGCGGTCCCCCACTTAGCCAAGCGTGGGGGCGGAAAGGTGGCGTCTAGCCCGCTTTGTTTCAAGTTTGGAT
CGCCTTGATCCAGGGGCGCGCGGCGCGCAAGGACCTGCAAGGGACTGAAGGCGGAGCCATCCAACCTTCGC
CCGACCCAAACACCTCATTGTTTCCCCACGTCTCCCTCTATACCCCTCGAAGACTCGAGAGGGGGAGGGGGTA
AGGAGCGCACAAAGCGCAGAGCTTGCTGCCCCGCGCACGCACGCGCGCTGCGTGCGGGGATGCGCGCGAGTGT
GTGCGTGCTCGCGTGTGTGTATGT
ACTCTTGAGCTGAACTGGGCTGTGTTTACCCCAAACCTCTTCCCACTTCGGGTCCCCAAGCCGCTGGGAGATGTC
CCATGTGGGGGTCCGCACGTGGCTGGAGGAGGTGGTCTTCCATCCGCTCTGAAATCATGTTTCTTAGAGAAATG
CCTCGGATGCCGCGCAGCGGTGCTGCTGCCGCGCTTCGGGTTTGGCCCCCTCAGAACCCCTCCTTTTCTGAGCG
CTTCCCTCTTAGGCCTCAGGCGAGTTTGATCTGTGGGGAGAAGAGCAGCCATCGCTGAGCCTGCCTTTTAAAT
ATATGTGATTTCTTAGCCCCACTCTAAGAAATCTATGTTCTGTGAGTTTGGCCCCCTGCCCTCCCACTCCTTCC
CTTTTCCCTCTAAACCTTCTCCCATCTCTTTCAAATCTTTTCCAGAAAGCGAGGCTTCAACAGCCACTCCA
GCTTTGTGCTTCTCTCAATTACATAGCAATTTCTCCTTCCACCATCATGGGAAGCTGGCTCTGCTTTTGCCC
TTTGTCTACCAACACAGATAGAATTTAAATATAAGTATATGGTGTGCGTGTGTATGTATGTGTATGTATGTATA
TGCATCATGTGTATAAAGATGCACATGCGTACATATACATAACATACACACAATATGTATTCTTAGCAAAATAA
AATCTCTAAGGTACTTGGTTATCCAGTGCAGTGCACCGGAATAAAGAGAATTTGTAGGCGTATACAGCTTTAAAT
GATTTATTTTTTATGAAAATGTTAACTGATGAGATTATATCTACATACGTGTGTATGTGTGTGGATATAGATGC
ACACATATCTGTACATATACATGTGAGTGATACATATATACATATACACATCTATGTATGGATATGTGTGTATA
CACATATACATCTCTGTCCAAAATTTCTCAAAGATATGGGGATTTTTTTCATGAATCCATGTGGATGAATGAG
GTGTCTCCTTTCCATACCCAGTCTCACCTTCTCCCCACCCTACCTCACCTCTTCTCAGGCACCCCTCTTCCCCAG
CTGTCTGCCAGCCCTTCTCGTACAGGGTGGCTCCTTTGAAGTGGAGTAATAGGGAAGGTTGCTCTCTGCCACAG
CTTGACGATGGTCTTGACTGAATGTACTGTTCTGTAGCGTTACTTCTCCTGTGGTCAGTAAGTTGCCACAG
AGAAGGAACAAAGGTCTGGAGTTTACAGAAATGCTGTGTTTTTAAAGTCACTTTATGCGTTTTTCCACTTTTTTCTTT
TTTAAAGAAAAGAGTACCATTTTTGTTTTGTTTTGTTTTGATTTTTTGGTGGTGGAATAATACTAAAAGGAC
TCTAGTGGAAGGGGGGATATCGAAGAGCAGGGGGTGTGAATTTCCAGGTACTTGGACTTTTTGTAGAAGTAGA
GAGAAGAAGATGAAGTTTGGCAGGAGGGCCCATATTTTTTTCAGCTGAAGGGTAAATCTTTCTTTGCAGAGACAG

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FIGURE 576B

TATTTTGCTGAATACTTTTTATAATGTGATGATTATTAAGCAAAAATTTGGTCACTTCCAAGCTAGAAGG
AGGAATCAGATACCCTTTAATATTTTTCTCGCTCCTTCTGGTATATGCATGTCACCTGCATGATAATTGAGTTT
TCCTTTGTTTTAATAAACTGTTCTCAGACATTAAGCTAACTAAGAGAAAAATAACTTTGTTGCCAAAAGGTTG
TGCTATCCAGATTTTTTATAATGTCTGCATGTTTAAAAAAGCAACAAAAGAAAATGCACTCTAACTTATG
TGAAGTGAGAGAAAAAATCAGGTTTTAAACAGGAAACCTATGGGGAATGATATTTTTGAAAGACTTTTGTAT
AAAGTTGAGTACTTAGAAAAAGACAAACCAGATGTAATATATTTTGTGGATGTTTTATTCTTGATTTATAG
TACCTTATACTAAGGTTAAAAAATATGCTTGATATTGTGAAAAGGTGAAATCTTCACCAACATTTCAATTTGCT
CCTTTGTCATATTGTAATGCCAATATAATATAGTTAATGAAAACAGCATTTTAAAAACCGAAATATTGAAATGG
TGTAATGTTGTACCATTGCACTGTGAGCAAATGCTAATACAGTAAATATATTGTGTTTGCTGACAATCAAAAA
AAAAAAAAAAAAA

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FIGURE 577

MTGKLAEKLPVTMSSLLNQLPDNLYPEEIPSA LNLFSGSSDSVVHYNQMATENVMDIGLTNEKPNPELSYSGSFQ
PAPGNKTVTYLGKFAFDSPSNWCQDNII SLMSAGILGVPPASGALSTQTSTASMVQPPQGDVEAMYPALPPYSNC
GDLYSEPVSFHDPQGNPGLAYSPQDYQSAKPALDSNLFPMIPDYNLYHHPNDMGSIPEHKPFQGMDFIRVNPPT
TPLETIKAFKDKQIHGFGSLPQPPLTLKPIRPRKYPNRP SKTPLHERPHACPAEGCDRRFSRSDLTRHLRIHT
GHKPFQCRICMRFSRSDHLTTHIRHTGEKPFACEFCGRKFARSDEKRRHAKIHLKQKEKKAEGGAPSASSAP
PVSLAPVVTTC A

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FIGURE 578A

ACCTAAAACCTTGCAAGTTCAGGAAGAAACCATCTGCATCCATATTGAAAACCTGACACAATGTATGCAGCAGGC
TCAGTGTGAGTGAAGTGGAGGCTTCTCTACAACATGACCCAAAGGAGCATTGCAGGTCCTATTTGCAACCTGAAG
TTTGTGACTCTCCTGGTTGCCTTAAGTTCAGAACTCCCATTCCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGAAATG
ATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTCAGAAATATAAGATTTTAATA
CCTGCCACATGGAAGCTAATAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCCAAATGTCATAGTGACT
GACTGGTATGGGGCACATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAGAGGGGAAAATACATT
CATTTACACCTAATTTCTACTGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCCGAGTGTGTTGCCAT
GAATGGGCCCACCTCCGTTGGGGTGTGTTGATGAGTATAACAATGACAAACCTTTCTACATAAATGGGCAAAAT
CAAATTAAGTGACAAGGTGTTTCTGACATCACAGGCATTTTGTGTGTGAAAAGGTCCTTGCCCCAAGAA
AACTGTATTATTAGTAAGCTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTATGCAAGTTTATCTTCTGTGGTTGAATTTTGAATGCAAGTACCCACAACCAAGAAGCACCACAA
CTACAGAACAGATGTGCAGCCTCAGAAGTGCATGGGATGTAATCACAGACTCTGCTGACTTTCACCACAGCTTT
CCCATGAATGGGACTGAGCTTCCACCTCCTCCACATTTCTCGTTGTACAGGCTGGTGACAAAGTGGTCTGTTTA
GTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTGACAGACTCCTTCAACTACAACAAGCCGAGAATTTTATTG
ATGCAGATTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAGATCAGAGCCCAGCTA
CACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCACCCTGTATCAGCTAAAACAGAC
ATCAGCATTTGTTTCAAGGCTTAAGAAAGGATTTGAGGTGGTTGAAAACCTGAATGGAAGGCTTATGGCTCTGTG
ATGATATTAGTGACCAGCGGAGATGATAAGCTTCTTGGCAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACTCCATTGCCCTGGGTTTCTGTCAGCCCCAAATCTGGAGGAATTATCACGTCTTACAGGAGGTTTAAAG
TTCTTTGTTCCAGATATATCAAACCTCCAATAGCATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGAC
ATTTTCCAGCAACATATTAGCTTGAAAGTACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAACACAGTG
ACTGTGGATAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCTCTGAGATTATA
TTATTTGATCCTGATGGACGAAAATACTACACAAATAATTTTATCACCAATCTAACTTTTCGGACAGCTAGTCTT
TGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCTGAACAATACCCATCATTCTCTGCAAGCCCTG
AAAGTGACAGTGACCTCTCGCGCTCCAACCTCAGCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGGAAGAGAC
AGCCTCCATTTTCTCATCTGTGATGATTATGCCAATGTGAAACAGGGATTTTATCCCATTCTTAATGCCACT
GTCATGCCACAGTTGAGCCAGAGACTGGAGATCCTGTTACGCTGAGACTCCTTGATGATGGAGCAGGTGCTGAT
GTTATAAAAAATGATGGAATTTACTCGAGGTATTTTCTCTCTTGTGCAATGGTAGATATAGCTTGAAAGTG
CATGTCAATCACTCTCCAGCATAAGCACCCAGCCACTCTATTCCAGGGAGTCATGCTATGTATGTACCAGGT
TACACAGCAAACGGTAATATTAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
GGCTTTAGCCGAGTCAGCTCAGGAGGCTCCTTTTCAGTGTGGGAGTTCCAGCTGGCCCCCACCCTGATGTGTTT
CCACCATGCAAAATTATTGACCTGGAAGCTGTAAAGTAGAAGAGGAATTGACCCTATCTTGGACAGCACCTGGA
GAAGACTTTGATCAGGGCCAGGCTACAAGCTATGAAATAAGAAATGAGTAAAAGTCTACAGAATATCCAAGATGAC
TTTAAACAATGCTATTTTAGTAAATACATCAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTACGTTT
TCACCCAGATTTCCACGAATGGACCTGAACATCAGCCAAATGGAGAAACACATGAAAGCCACAGAATTTATGTT
GCAATACGAGCAATGGATAGGAACCTCCTTACAGTCTGCTGTATCTAACATTGCCAGGCGCTCTGTTTATTCCC
CCCAATTCGATCCTGTACCTGCCAGAGATTATCTTATATTGAAAGGAGTTTTAACAGCAATGGGTTTGATAGGA
ATCATTGTCCTTATTATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGA
ACAAAATTATTATATAATAAATATCCAAAGTGCTTCTCTTATAGATATAAGACCCATGGCCTTCGACTACAAAA
CATACTAACAAAGTCAAATTAACATCAAACCTGTATTAAATGCATTGAGTTTTTGTACAATACAGATAAGATTT
TTACATGGTAGATCAACAATTTCTTTTGGGGTAGATTAGAAAACCTTACACTTTGGCTATGAACAAATAATAA
AAATTATTCTTTAAAGTAATGTCTTTAAAGGCAAAGGGAAGGTAAGTCGGACAGTGTCAAGGAAAGTTTGT
TTATTGAGGTGGAAAAATAGCCCCAAGCAGAGAAAAGGAGGTAGGTCTGCATTATAACTGTCTGTGTGAAGCAA
TCATTAGTTACTTTGATTAAATTTCTTTTCTCTTATCTGTGCAGAACAGGTGCTTGTTTACAACCTGAAGAT
CATGCTATATTTTATATATGAAGCCCTAATGCAAAGCTCTTTACCTCTTGCTATTTTGTATATATATTACAGA
TGAATCTCACTGCTAATGCTCAGAGATCTTTTTCTACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCTT
TGCTCTTCATACCGGTTTATGACAAAGTCTATTGAATTTATTGTTTGTAAAGTTTCTACTCCCATCAAAGCA

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FIGURE 578B

GCTTTCTAAGTTATTGCCTTGGTTATTATGGATGATAGTTATAGCCCTTATAATGCCTTACCTAGGAAA

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FIGURE 579

MTQRSIAGPICNLKFVTLVALLSSELPFLGAGVQLQDNGYNGLLIAINPQVPENQNLSNIKEMITEASFYLFNA
TKRRVFFRNIKILIPATWKANNNSKIKQESYEKANVIVTDWYGAHGDDPYTLQYRGCCKEGKYIHFTPNFLLNDN
LTAGYGSRRGRVVFHEWAHLRWGVFDEYNNDKPFYINGQNQIKVTRCSSDITGIFVCEKGPCPQENCII SKLFKEG
CTFIYNSTQNATASIMFMQSLSSVVEFCNASTHNQEAPNLQNMCSLRSAWDVITDSADFHHSFPMNGTELP PPP
TFSLVQAGDKVVCLVLDVSSKMAEADRLQLQQAEEFYLMQIVEIHTFVGIA SFDSKGEIRAQLHQINSNDDRKL
LVSYLPTTVSAKTDISICSGLKKGFVVEKLNKAYGSVMILVTS GDDKLLGNCLPTVLSSGSTIHSIALGSSAA
PNLEELSRLTGGLKFFVPDISNSNSMIDAFSRISSTGDI FQQHIQLESTGENVKPHHQLKNTVTVDN TVGNDTM
FLVTWQASGPPEIILFDPDGRKYTTNNFITNLTFRTASLWIPGTAKPGHWYTLNNTHHSLQALKVTVTSRASNS
AVPPATVEAFVERDSLHFPHPVMIYANVKQGFYPI LNATVTATVEPETGDPVTLRLDDGAGADVIKNDGIYSRY
FFSFAANGRYSLKVHVNHSISSTPAHSIPGSHAMYVPGYTANGNIQMNAPRKSVGRNEEERK WGF SRVSSGGSF
SVLGVPAGPHPDVFPCKIIDLEAVKVEEELT LSWTAPGEDFDQGGQATSYEIRMSKSLQNIQDDFN NAILVNTSK
RNPQQAGIREIFTFSPQISTNGPEHQPNGETHESHRIYVAIRAMDRNSLQSAVS NIAQAPLFIPPNSDPVPARDY
LILKGVL TAMGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

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FIGURE 580

ACTGCGAAGCGGCTTCTTCAGAGCACGGGCTGGAAGTGGCAGGCACCGCGAGCCCCTAGCACCCGACAAGCTGAG
TGTGCAGGACGAGTCCCCACCACACCCACACCACAGCCGCTGAATGAGGCTTCCAGGCGTCCGCTCGCGGCCCGC
AGAGCCCCGCGGTGGGTCCGCGCGCTGAGGCGCCCCAGCCAGTGCCTTACCTGCCAGACTGCGCGCCATGGGG
CAACCCGGGAACGGCAGCGCCTTCTTGCTGGCACCCAATAGAAGCCATGCGCCGGACCACGACGTACGCAGCAA
AGGGACGAGGTGTGGGTGGTGGGCATGGGCATCGTCATGTCTCTCATCGTCTGGCCATCGTGTTGGCAATGTG
CTGGTCATCACAGCCATTGCCAAGTTCGAGCGTCTGCAGACGGTCACCAACTACTTCATCACTTCACTGGCCTGT
GCTGATCTGGTCATGGGCCTGGCAGTGGTGGCCTTTGGGGCCGCCCATATTCTTATGAAAATGTGGACTTTTGGC
AACTTCTGGTGCAGTTTTGGACTTCCATTGATGTGCTGTGCGTCACGGCCAGCATTGAGACCTGTGCGTGATC
GCAGTGGATCGTACTTTGCCATTACTTCACCTTTCAAGTACCAGAGCCTGCTGACCAAGAATAAGGCCCGGGTG
ATCATTCTGATGGTGTGGATTGTGTCAGGCCCTTACCTCCTTCTTGCCATTGAGATGCACTGGTACCGGGCCACC
CACCAGGAAGCCATCAACTGCTATGCCAATGAGACCTGCTGTGACTTCTTCACGAACCAAGCCTATGCCATTGCC
TCTTCCATCGTGTCTTCTACGTTCCCTGGTGATCATGGTCTTCGTCTACTCCAGGGTCTTTCAGGAGGCCAAA
AGGCAGCTCCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTTAGCCAGGTGGAGCAGGATGGG
CGGACGGGGCATGGACTCCGCAGATCTTCCAAGTCTGCTTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATC
ATCATGGGCACTTTACCCTCTGCTGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTC
ATCCGTAAGGAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCTTATCTACTGC
CGGAGCCCAGATTTAGGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCTTCTTTGAAGGCCATGGGAAT
GGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGATATCACGTGGAACAGGAGAAAGAAAATAAACTGCTG
TGTGAAGACCTCCAGGCACGGAAGACTTTGTGGGCCATCAAGGTACTGTGCCTAGCGATAACATTGATTACAA
GGGAGGAATTGTAGTACAAATGACTCACTGCTGTAAAGCAGTTTTTCTACTTTTAAAGACCCCCCCCCCAAC
AGAACTACTAAACAGACTATTTAACTTGAGGGTAATAAACTTAGAATAAAATTGTAAAAATTGTATAGAGATATGC
AGAAGGAAGGGCATCCTTCTGCCTTTTTTATTTTTTAAAGCTGTAAAAAGAGAGAAAATTATTTGAGTGATTAT
TTGTTATTTGTACAGTTTCACTTCTTTGATGGAATTTGTAAGTTTATGTCTAAAGAGCTTTAGTCTAGAGG
ACCTGAGTCTGCTATATTTTCACTGCTTTTCCATGTATCTACCTCACTATTCAAGTATTAGGGGTAAATATATTGC
TGCTGGTAATTTGTATCTGAAGGAGATTTTCTTCTACACCTTGACTTGAGGATTTTGTAGTATCTCGGACCT
TTCAGCTGTGAACATGGACTCTTCCCCACTCCTTATTTGCTCACACGGGTATTTTAGGCAGGGATTTGAGG
AGCAGCTTCAGTTGTTTTCCCGAGCAAAGGTCTAAAGTTTACAGTAAATAAAATGTTTGACCATG

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FIGURE 581

MGQPGNGSAFL LAPNRSHAPDHDVTQQRDEVWVVGMGIVMSLIVLAIVFGNVLVITAI AKFERLQTVTNYFITSL
ACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDVLCVTASIE TLCVIAVD RYFAITSPFKYQSLLTKNKA
RVIILMVWIVSGLTSFLPIQMHWYRATHQEAINCYANETCCDFFTNQAYAIASSIVSFYVPLVIMVFVYSRVFQE
AKRQLQKIDKSEGRFHVQNLSQVEQDGRIGHGLRRSSKFCLKEHKALKT LGIIMGTFTLCWL PFFIVNIVHVIQD
NLIRKEYYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAYGNGYSSNGNTGEQSGYHVEQEKENK
LLCEDLPGTEDFVGHQGTVP SDNIDSQGRNCSTNDSLL

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FIGURE 582

GGTTCAGGAACCTGCTGGTTCTGATACATAAATCAGACAGCCTCTGCTGCATGACACGAAGCTTGCTTCTGCCTG
GCATCTGTGAGCAGCTGCCAGGCTCCGGCCAGGATCCCTTCCTTCTCCTCATTGGCTGATCGATCCCAAGGGGCT
CCTCTCCTTGACCTTCGTGCTGTTTCTCTCCCTGGCTTTTGGGGCAAGCTACGGAACAGGTGGGCGCATGATGAA
CTGCCCCAAGATTCTCCGGCAGTTGGGAAGCAAAGTGTCTGCTGCCCCCTGACATATGAAAGGATAAATAAGAGCAT
GAACAAAAGCATCCACATTGTCTGTCACAATGGCAAATCACTGGAGAACAGTGTGAGAACAAAATAGTGTCTCT
TGATCCATCCGAAGCAGGCCCTCCACGTTATCTAGGAGATCGCTACAAGTTTTATCTGGAGAATCTCACCTGGG
GATACGGGAAAGCAGGAAGGAGGATGAGGGATGTTACCTTATGACCCTGGAGAAAAATGTTTCAGTTCAGCGCTT
TTGCCTGCAGTTGAGGCTTTATGAGCAGGTCTCCACTCCAGAAATTAAAGTTTTAAACAAGACCCAGGAGAACGG
GACCTGCACCTTGATACTGGGCTGCACAGTGGAGAAGGGGGACCATGTGGCTTACAGCTGGAGTGAAAAGGCGGG
CACCCACCCACTGAACCCAGCCAACAGCTCCCACCTCCTGTCCCTCACCTCGGCCCCCAGCATGCTGACAATAT
CTACATCTGCACCGTGAGCAACCCTATCAGCAACAATCCCAGACCTTCAGCCCGTGGCCCGGATGCAGGACAGA
CCCCCTCAGAAACAAAACCATGGGCAGTGTATGCTGGGCTGTAGGGGGTGTATCATGATTCTCATCATGTTGGT
AATACTACAGTTGAGAAGAAGAGGTAAAACGAACCATTACCAGACAACAGTGGAAAAAAGCCTTACGATCTA
TGCCCCAAGTCCAGAAACCAGGTCTCTTTCAGAAGAACTTGACTCCTTCCCAGCTCAGGACCCTTGCACCACCAT
ATATGTTGCTGCCACAGAGCCTGTCCCAGAGTCTGTCCAGGAAACAAATCCATCACAGTCTATGCTAGTGTGAC
ACTTCCAGAGAGCTGACACCAGAGACCAACAAAGGGACTTTCTGAAGGAAAATGGAAAAACCAAATGAACACTG
AACTTGGCCACAGGCCCAAGTTTCTCTGGCAGACATGCTGCACGTCTGTACCCTTCTCAGATCAACTCCCTGGT
GATGTTTCTTCCACATACATCTGTGAAATGAACAAGGAAGTGAGGCTTCCAAGAATTTAGCTTGCTGTGCAGTG
GCTGCAGGCGCAGAACAGAGCGTTACTTGATAACAGCGTTCATCTTTGTGTTGTAGCAGATGAAATGGACAGTA
ATGTGAGTTCAGACTTTGGGCATCTTGCTCTTGGCTGGAACGATAATAAAAATCAGACTGAAAGCCAGGACATC
TGAGTACCTATCTCACACACTGACCACCAGTCACAAAGTCTGGAAAAGTTTACATTTTGGCTATCTTTACTTTGT
TCTGGGAGCTGATCATGATAACCTGCAGACCTGATCAAGCCTCTGTGCCTCAGTTTCTCTCTCAGGATAAAGAGT
GAATAGAGGCCGAAGGGTGAATTTCTTATTATACATAAAACACTCTGATATTATTGTATAAAGGAAGCTAAGAAT
ATTATTTTATTTGCAAAACCCAGAAGCTAAAAAGTCAATAAACAGAAAGAATGATTTTGAAGAA

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FIGURE 583

MDPKGLLSLTFVLFLSLAFGASYGTGGRMMNCPKILRQLGSKVLLPLTYERINKSMNKSIHIVVTMAKSLNSVE
NKIVSLDPSEAGPPRYLGDRYKFYLENLTLGIRESRKEDEGWYLMLEKNVSVQRFCLQLRLYEQVSTPEIKVLN
KTQENGCTTLILGCTVEKGDHVAYSWSEKAGTHPLNPANSSHLLSLTLGPQHADNIYICTVSNPISNNSQTFSPW
PGCRTDPSETKPWAVYAGLLGGVIMILIMVILQLRRRGKTNHYQTTVEKKSLTIYAQVQKPGPLQKKLDSFPAQ
DPCTTIYVAATEPVPESVQETNSITVYASVILPES

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FIGURE 584

ATTTAAATTCTGCAGCTCAGAGATTCACACAGAAGTCTGGACACAATTCAGAAGAGCCACCCAGAAGGAGACAAC
AATGTCCCTGCTACCCGTGCCATACACAGAGGCTGCCTCTTTGTCTACTGGTTCTACTGTGACAATCAAAGGGCG
ACCACTTGCCTGTTTCTTGAATGAACCATATCTGCAGGTGGATTTCCACACTGAGATGAAGGAGGAATCAGACAT
TGTCTTCCATTTCCAAGTGTGCTTTGGTCGTCGTGTGGTCATGAACAGCCGTGAGTATGGGGCCTGGAAGCAGCA
GGTGGAAATCCAAGAATATGCCCTTTTCAAGGATGGCCAAGAATTTGAACTGAGCATCTCAGTGTGCCAGATAAGTA
CCAGGTAATGGTCAATGGCCAATCCTCTTACACCTTTGACCATAGAATCAAGCCTGAGGCTGTGAAGATGGTGCA
AGTGTGGAGAGATATCTCCCTGACCAAATTTAATGTCAGCTATTTAAAGAGATTAACCAGACTTCATGTTGCCAAG
GAATCCCTGTCTCTACGTGAACCTGGGATTCCAAAGCCAGCTAACAGCATGATCTTTTCTCACTTCAATCCTTAC
TCCTGCTCATTAAAACTTAATCAAACCTTCAAAAAAAAAA

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FIGURE 585

MSLLPVPYTEAASLSTGSTVTIKGRPLACFLNEPYLQVDFHTEMKEESDIVEHFQVCFGRRVVMNSREYGAWKQQ
VESKNMPFQDQGEFELSISVLPDKYQVMVNGQSSYTFDHRIKPEAVKMQVWRDISLTGFNVSYLKR

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FIGURE 586

GCTGGTCGGAGGCTCGCAGTGCTGTGCGCGAGAAGCAGTCGGGTTTGGAGCGCTTGGGTCGCGTTGGTGCGCGGT
GGAACGCGCCAGGGACCCAGTTCCCGCGAGCAGCTCCGCGCCGCGCCTGAGAGACTAAGCTGAAACTGCTGCT
CAGCTCCCAAGATGGTGCCACCCAAATTGCATGTGCTTTTCTGCCTCTGCGGCTGCCTGGCTGTGGTTTATCCTT
TTGACTGGCAATACATAAATCCTGTTGCCCATATGAAATCATCAGCATGGGTCAACAAAATACAAGTACTGATGG
CTGCTGCAAGCTTTGGCCAACTAAATCCCCGGGGAAATGGGCCTTATCCGTTGGTTGTACAGACTTAATGT
TTGATCACACTAATAAGGGCACCTTCTTGCCTTTATATTATCCATCCCAAGATAATGATCGCCTTGACACCCTTT
GGATCCCAAATAAAGAATATTTTGGGGTCTTAGCAAATTTCTTGGAACACACTGGCTTATGGGCAACATTTTGA
GGTTACTCTTTGGTTCAATGACAACCTCTGCAAACCTGGAATTCCCCTCTGAGGCCTGGTGAAAAATATCCACTTG
TTGTTTTTCTCATGGTCTTGGGGCATTGAGGACACTTTATTCTGCTATTGGCATTGACCTGGCATCTCATGGGT
TTATAGTTGCTGCTGTAGAACACAGAGATAGATCTGCATCTGCAACTTACTATTTCAAGGACCAATCTGCTGCAG
AAATAGGGGACAAGTCTTGGCTCTACCTTAGAACCTGAAACAAGAGGAGGAGACACATATACGAAATGAGCAGG
TACGGCAAAGAGCAAAGAATGTTCCCAAGCTCTCAGTCTGATTCTTGACATTGATCATGGAAAGCCAGTGAAGA
ATGCATTAGATTTAAAGTTTGATATGGAACAACCTGAAGGACTCTATTGATAGGGAAAAATAGCAGTAATTGGAC
ATTCTTTTGGTGAGCAACGGTTATTCAGACTCTTAGTGAAGATCAGAGATTCAGATGTGGTATTGCCCTGGATG
CATGGATGTTTCCACTGGGTGATGAAGTATATTCCAGAATTCCTCAGCCCTCTTTTTTATCAACTCTGAATATT
TCCAATATCTGCTAATATCATAAAATGAAAAATGCTACTCACCTGATAAAGAAAGAAAGATGATTACAATCA
GGGGTTCAGTCCACCAGAATTTTGTGACTTCACTTTTGCAACTGGCAAAATAATTGGACACATGCTCAAATTAA
AGGGAGACATAGATTCAAATGTAGCTATTGATCTTAGCAACAAAGCTTCATTAGCATTCTTACAAAAGCATTTAG
GACTTCATAAAGATTTTGATCAGTGGGACTGCTTGATTGAAGGAGATGATGAGAATCTTATTCCAGGGACCAACA
TTAACACAACCAATCAACACATCATGTTACAGAACTCTTCAGGAATAGAGAAATACAATTAGGATTAAATAGGT
TTTTT

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FIGURE 587

MVPPKLHVLFCCLGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFQTKIPRGNGPYSVGCTDLMFDHT
NKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVS
HGLGAFRTLYSAIGIDLASHGFIVA AVEHRDRSASATYYFKQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQR
AKECSQALSLILDIDHGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWME
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGD
DSNVAIDLSNKASLAFLQKHLGLHKDFDQWDCLIEGDDENLIPGTNINTTNQHIMLQNSSGIEKYN

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FIGURE 588

GAGAGACTGGATGGACCCACAAGGGTGACAGCCAGGCGGACCGATCTTCCCATCCCACATCCTCCGGCGCGATG
CCAAAAAGAGGCTGACGGCAACTGGGCCTTCTGCAGAGAAAGACCTCCGCTTCACTGCCCCGGCTGGTCCCAAGG
GTCAGGAAGATGGATTACATCTGCTGATGTGGGGACTGCTCACGTTTCATCATGGTGCCTGGCTGCCAGGCAGAG
CTCTGTGACGATGACCCGCCAGAGATCCCACAGCCACATTCAAAGCCATGGCCTACAAGGAAGGAACCATGTTG
AACTGTGAATGCAAGAGAGGTTTCCGCAGAATAAAAAGCGGGTCACTCTATATGCTCTGTACAGGAACTCTAGC
CACTCGTCCTGGGACAACCAATGTCAATGCACAAGCTCTGCCACTCGGAACACAACGAAACAAGTGACACCTCAA
CCTGAAGAACAGAAAGAAAGGAAAACACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCA
GGTCACTGCAGGGAACCTCCACCATGGGAAAATGAAGCCACAGAGAGAATTTATCATTTTCGTGGTGGGGCAGATG
GTTTATTATCAGTGCGTCCAGGGATACAGGGCTCTACACAGAGGTCTGCTGAGAGCGTCTGCAAAATGACCCAC
GGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGTGAAATGGAGACCAGTCAGTTTCCAGGTGAAGAG
AAGCCTCAGGCAAGCCCCGAAGGCCGCTCTGAGAGTGAGACTTCTGCTCGTCACAACAACAGATTTTCAAATA
CAGACAGAAATGGCTGCAACCATGGAGACGTCCATATTTACAACAGAGTACCAGGTAGCAGTGGCCGGCTGTGTT
TTCTGCTGATCAGCGTCTCTCTCTGAGTGGGCTCACCTGGCAGCGGAGACAGAGGAAGAGTAGAAGAACAATC
TAGAAAACCAAAAGAACAAGAATTTCTTGTAAGAAGCCGGGAACAGACAACAGAAGTCATGAAGCCCAAGTGAA
ATCAAAGGTGCTAAATGGTCGCCCAGGAGACATCCGTTGTGCTTGCCTGCGTTTTGGAAGCTCTGAAGTCACATC
ACAGGACACGGGGCAGTGGCAACCTTGCTCTATGCCAGCTCAGTCCCATCAGAGAGCGAGCGCTACCCACTTCT
AAATAGCAATTTGCGCGTTGAAGAGGAAGGGCAAAACCACTAGAACTCTCCATCTTATTTTCATGTATATGTGTT
CATTAAAGCATGAATGGTATGGAATCTCTCCACCTATATGTAGTATAAAGAAAAGTAGGTTTACATTTCATCTC
ATTCCAATTTCCAGTTTCAAGAGTCCCAAGGAAAGCCCCAGCACTAACGTAAATACACAACACACACTCTACC
CTATACAACTGGACATTGTCTGCGTGGTTCCCTTCTCAGCCGCTTCTGACTGCTGATTCTCCCGTTCACGTTGCC
TAATAAACATCCTTCAAGAACTCTGGGCTGTACCCAGAAATCATTTTACCCTTGGCTCAATCCTCTAAGCTAAC
CCCCTTCTACTGAGCCTTCAGTCTTGAATTTCTAAAAAACAGAGGCCATGGCAGAATAATCTTTGGGTAACTTCA
AAACGGGGCAGCCAAACCCATGAGGCAATGTGAGGAACAGAAGGATGAATGAGGTCCCAGGCAGAGAATCATACT
TAGCAAAGTTTTACCTGTGCGTTACTAATTGGCCTCTTTAAGAGTTAGTTTCTTTGGGATTGCTATGAATGATAC
CCTGAATTTGGCCTGCACTAATTTGATGTTTACAGGTGGACACACAAGGTGCAAATCAATGCGTACGTTTCCCTGA
GAAGTGTCTAAAAACACCAAAAAGGGATCCGTACATTCAATGTTTATGCAAGGAAGGAAAGAAAGGAAGTGA
AGAGGGGAGAAGGGATGGAGGTACACTGGTAGAACGTAACCACGGAAGAGCGCATCAGGCCTGGCACGGTGGC
TCAGGCCTATAACCCAGCTCCCTAGGAGACCAAGGCGGGAGCATCTCTTGAGGCCAGGAGTTTGAGACCAGCCT
GGGCAGCATAGCAAGACACATCCCTACAAAAATTAGAAATTTGGCTGGATGTGGTGGCATAACGCTGTAGTCCTA
GCCACTCAGGAGGCTGAGGCAGGAGGATTGCTTGAGCCAGGAGTTTCGAGGCTGCAGTCAGTCATGATGGCACCA
CTGCACTCCAGCCTGGGCAACAGAGCAAGATCCTGTCTTTAAGGAAAAAAGACAAGG

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FIGURE 589

MDSYLLMWGLLTFIMVPGQAE LCDDDPPEIPHATFKAMAYKEG TMLNCECKRGFRRIKSGSLYMLCTGNSSHSS
WDNQCQCTSSATRNTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPWENEATERIYHFVVGQMVYY
QCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPESETSCLVTTTDFQIQTE
MAATMETSIFTTEYQVAVAGCVFLLISVLLSGLTWQRRQRKSRTI

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FIGURE 590

ATCTTTTTTCATCTTCTAGCTGTAGCTCGGGCTGCTTGTGCGCTTGGCTCCCCCTCCCCCTTTGCTCTCTGCCT
CGTCTTTCCCCAGGACTTCGCTATTTTGTCTTTTTTAAAAAAGGCAAGAAAGAACTAAACTCCCCCTCCCTCTC
CTCCAGTCGGGCTGCACCTCTGCCTTGCCTTTGCACAGAGGTAGAGAGCGCGGAGGGAGAGAGAGGAAAGAAA
AAAAATAATAAGAGAGCCAAGCAGAAGAGGAGGCGAGAAGCATGAAGTGTTAACTCCCCGTGCCAAGGCCCGC
GCCGCCGGACAGACGCCCGCGCGCTTCCAGCCCCGAGCGGACGCCGCGCGCGCCCTGCCTGCAGCCCCGGC
CGGCGACGGCGAGCCCTTCTTATGCAAAGCGCGCCAGCAGCGCGAAGGCGGGACGCCGCGCACCGGGCCGGGT
CCTCCAGCTTCGCCCGCGCAGCCACCACCGCCGCCACCGCAGCTCGCGGAGGATCTTCCCAGCCTGAAGCCGCC
GGCTCGGCGCGCAAGGAGGCGAGCGCAAGGAGGGGCGGGGCGAGCGAGGGAGCACATTGGCGTGAGCAGGGGGG
AGGGAGGGCGGGCGGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
CCACCGCCGCGCAAGCTAGAAGCGCCCCAGCCCGCAAGCTGGCTCACCCGCTGGCCACCCAGCACAGCCCGCTG
GCCCCCTCTCTGCAGCCCATCTGGCGGAGCGGCGGGCGGGCGGGCGGGCGGGCGGGCAGGAGAATGCATCAGAACTGGCA
ATGAGCAACTCCGACCTGCCACCACTGCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTTGAA
GTGAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGGCGCGTCTCATCGCCGGGGGCTCGCTGTCC
TCCACCCCATGAGCACGCCGTGCAGCTCGGTGCCCCCTTCCCCAGCTTCTCGGCGCCCAGCCCGGGCTCGGGC
AGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACCGGCTACCCGCGAGCAGCTGAACCCCGAGGCGCTG
GGCTTCAGCCCCGAGGACGCGGTGAGGCGCTCATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTAC
GCGCGCGGGGCGCAGCAGCTGGCCGCGGCGGCGGGGCGGGTGGCGGCGCTCCTTGGGCGGCAGCGGCGAGGAG
ATGGGCCCCGCGGCGCGCTGCTGTCGCGCGTATCGCCGCGGCGCGCGCGCAGAGCGGCGCGGGCCCGCACTAC
CACCACCACCACCACCGCCCGGGCCACCACCACCACCCGACGGCCGCGCGCCCGGCGCGCGGGCAGCGCG
GCCGCTCGGCGGTGGCGCTGGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
GGCGGCGGAGGCGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
TTCGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGCGAGCTGAACCGGCAGCTGCGCGGGGTC
AGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCTGAAAAACCGCGGCTATGCCAGTCTCTGCCG
TTCAAGAGGGTGCAGCAGAGACGTCCTGGAGTCGGAGAAGAACCAGCTGCTGCAGCAAGTCGACCACCTCAAG
CAGGAGATCTCCAGGCTGGTGCAGAGAGGACGCGTACAAGGAGAAATACGAGAAGTTGGTGAGCAGCGGCTTC
CGAGAAAACGGCTCGAGCAGCGACAACCCGTCCTCTCCGAGTTTTTCATAACTGAGCCCACTCGCAAGTTGGAG
CCATCAGTGGGATACGCCACATTTTGAAGCCCCAGCATCGTGTACTTACCAGTGTGTTACAAAAATGAATTTG
TGTGAGAGCTGTACATTAAAAAAAACATATTATTATTATTATTTGCAGTCATGGAGAACCACCTACCCCTGACT
TCTGTTTAGTCTCCTTTTTAAATAATACTGTGTTAGAAAAAAA

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FIGURE 591

MASELAMNSDLPTSPPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISNSHQGGFDGYARGAQQQLAAAAGAGAGASL
GGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFITE
PTRKLEPSVGYATFWKPQHRVLTSVFTK

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FIGURE 592

AGCTCAGCAGGACCTCAGCCATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTG
TGGAAGGTGTAGGGAGTGAAGTCTCAGATAAGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCGGTTAGCA
GAATCAAGACCTACACCATCACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCT
GTGCTGATCCACAAGCCACATGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACA
TGATCCAGACCAAGCCAACAGGAACCCAGCAATCGACCAATACAGCTGTGACTCTGACTGGCTAGTAGTCTCTGG
CACCCTGTCCGTCTCCAGCCAGCCAGCTCATTTCACCTTTACACGCTCATGGACTGAGTTTATACTCACCTTTTAT
GAAAGCACTGCATGAATAAAATTATTCCCTTGTATTTTTACTTTTAAATGTCTTCTGTATTCACTTATATGTTCT
AATTAATAAATTATTTATTATTAAGAATAGTTCCTAGTCTATTTCATTATATTTAGGGAAAGGTAGTGTATCATT
GTTGTTTGATTTCTGACCTTGTACCTCTCTTTGATGGTAACCATAATGGAAGAGATTCTGGCTAGTGTCTATCAG
AGGTGAAAGCTATATCAATCTCTCTTAGAGTCCAGCTTGTAAATGGTTCTTTACACATCAGTCACAAGTTACAGCT
GTGACAATGGCAACAATTTGAGATGTATTTCAACTTGTCTCTATAATAGAATTCTGTTTATAGAATAAGGGAGAA
AATAATCCAGTCTTCACTGGGTTCCTATTCTGAGGGTCCACTACTCAAAAATTGCTTCACTCAATTTTTTTCAC
CTCTTTGTGTTTTATTTTGGTGTCTTATTAAAGGAATAAAATGACACAACCTTGTCCTTTTTTGTCCCATTAGCA
AAAATTAGAATTTTGGTATAAAGAACTTTATTCAAGTAAAAATCAATACCCTTTGAATTGGACAATAATCTCAC
TACCTTATTAGGATTTCTGTATTTGCCATTACGCTAGTTATCATGCATGTTATGCTTTACTGCGAATAAGCTTTT
AATGCTCCAAATGCTGACCCATGCAATATTTCCCTCATGTGATCACAATTTGCAGTAACTTTTAAATTAATGCTC
ATCTGGTAACTCAACACCCAG

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FIGURE 593

MRLILALLGICSLTAYIVEGVGSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSMRKSNTNRNMIQTKPTGTQQSTNTAVTLTG

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FIGURE 594

GAGTCAGCCCCGGGGGAGGCC**ATGA**ACGCCACGGGGACCCCGGTGGCCCCCGAGTCCTGCCAACAGCTGGCGGC
CGGCGGGCACAGCCGGCTCATTGTTCTGCACTACAACCACTCGGGCCGGCTGGCCGGGCGCGGGGGCCGGAGGA
TGGCGGCTGGGGGCCCTGCGGGGGCTGTCGGTGGCCGCCAGCTGCCTGGTGGTGTCTGGAGAACTTGCTGGTGCT
GGCGGCCATCACCAGCCACATGCGGTGCGGACGCTGGGTCTACTATTGCCTGGTGAACATCAGCTGAGTGACCT
GCTCACGGGCGGGCCTACCTGGCCAACGTGCTGCTGTCGGGGGCCCGCACCTTCCGTCTGGCGCCCGCCAGTG
GTTCTACGGGAGGGCCTGCTCTTACCGCCCTGGCCGCTCCACCTTCAGCCTGCTCTTCACTGCAGGGGAGCG
CTTTGCCACCATGGTGGGCCGGTGGCCGAGAGCGGGGCCACCAAGACCAGCCGCGTCTACGGCTTCATCGGCCT
CTGCTGGCTGCTGGCCGCGCTGCTGGGGATGCTGCCTTTGCTGGGCTGGAACTGCCTGTGCGCCTTTGACCGCTG
CTCCAGCCTTCTGCCCCCTACTCCAAGCGCTACATCCTCTTCTGCTGGTGATCTTCGCCGGCGTCTTGGCCAC
CATCATGGGCCTCTATGGGGCCATCTTCCGCTGGTGCAGGCCAGCGGGCAGAAGGCCCCACGCCAGCGGGCCG
CCGCAAGGCCCGCCGCTGCTGAAGACGGTGTGATGATCCTGCTGGCCTTCTGGTGTGCTGGGGCCCACTCTT
CGGGCTGTGCTGGCCGACGCTTTGGCTCCAACCTCTGGGCCAGGAGTACCTGCGGGCATGGACTGGATCCT
GGCCTGGCCGTCTCAACTCGGCGGTCAACCCCATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGT
GCTCAGCTTCTCTGCTGCGGGTGTCTCCGGCTGGGCATGCGAGGGCCCGGGGACTGCCTGGCCCGGGCCGTGCA
GGCTCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTCCCGCTCGCTCAG
CTTTGGATGCGGGAGCCCTGTCCAGCATCTCCAGCGTGGGAGCATCT**TGA**AGTTGCAGTCTTGCCTGTGGATG
GTGCAGCCACCGGGTGGTGGCAGGCAGGCCCTCTGGGGTACAGGAAGCTGTGTGCACGCAGCCTCGCCTGTAT
GGGGAGCAGGGAACGGGACAGGCCCCCATGGTCTTCCCGGTGGCCTCTCGGGGCTTCTGACGCCAAATGGGCTTC
CCATGGTCACCTGGACAAGGAGGTAACCAACCCACCTCCCGTAGGAGCAGAGACACCTGGTGTGGGGGCGA
GTGGTTCCCCACAACCCGCTTCTGTGTGATTCTGGGGAAGTCCCGGCCCTCTCTGGGCCTCAGTAGGGCTCCC
AGGCTGCAAGGGGTGGACTGTGGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTAAAAAA

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FIGURE 595

MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALRGLSVAASCLVVLENLLVLAAITSHM
RSRRWVYYCLVNITLSDLLTGAAYLANVLLSGARTFRLAPAQWFLREGLLFTALAASTFSLFTAGERFATMVRP
VAESGATKTSRVYGFIGLCWLLAALLGMLPLLGNCLCAFDRCSLLPLYSKRYILFCLVIFAGVLATIMGLYGA
IFRLVQASGQKAPRPAARRKARRLLKTVLMILLAFLVCWGPLFGLLLADVFGSNLWAEYLRGMDWILALAVLNS
AVNP IIYSFRSREVCRAVLSFLCCGCLRLGMRGPGDCLARAVEAHSGASTTDSSLRPRDSFRGSRSLSFRMREPL
SSISSVRSI

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FIGURE 596

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTTATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCAGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTTCATCGGGATCGTGTGTTCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCAT
CAAAGATGTGGCCATTAAGGAGCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTTGAGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCCTAGCGGTTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 597

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYFFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVLVDVSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPGTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLTIVKTGEEIFGTIGMRPNAKNNRDLDF TIDLDFKGQLCELS CSTDYMR

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FIGURE 598

ACAGGGGTGAAGGCCAGAGACCAGCAGAACGGCATCCCAGCCACGACGGCCACTTTGCTCTGTCTGCTGTCCGC
CACGGCCCTGCTCTGTTCCCTGGGACACCCCGCCCCCACCTCCTCAGGCTGCCTGATCTGCCCAGCTTTCCAGC
TTTCTCTGGATTCCGGCCTCTGGTCATCCCTCCCCACCCTCTCTCCAAGGCCCTCTCCTGGTCTCCCTTCTTCT
AGAACCCCTTCTCCACCTCCCTCTCTGCAGAACTTCTCCTTTACCCCCACCCCCACCACTGCCCCCTTCTCT
TTTCTGACCTCCTTTTGGAGGGCTCAGCGCTGCCAGACCATAGGAGAGATGTGGGAGGCTCAGTTCTTGGGCTT
GCTGTTTCTGCAGCCGCTTTGGGTGGCTCCAGTGAAGCCTCTCCAGCCAGGGGCTGAGGTCCCGGTGGTGTGGGC
CCAGGAGGGGGCTCTGCCAGCTCCCTGCAGCCCCACAATCCCCCTCCAGGATCTCAGCCTTCTGCGAAGAGC
AGGGGTCACTTGGCAGCATCAGCCAGACAGTGGCCCCGCCGCTGCCGCCCCGGCCATCCCTTGGCCCCGGCCC
TCACCCGGCGCGCCCTCTCCTGGGGGCCAGGCCCGCCGCTACACGGTGCTGAGCGTGGGTCCCGGAGGCCT
GCGCAGCGGGAGGCTGCCCTGCAGCCCCGCGTCCAGCTGGATGAGCGCGGCCGGCAGCGCGGGGACTTCTCGCT
ATGGCTGCGCCCAGCCCCGGCGCGGACGCCGGCGAGTACCGCGCCGGTGACCTCAGGACCGCGCCCTCTC
CTGCCGCTCCGTCTGCGCCTGGGCCAGGCCTCGATGACTGCCAGCCCCCAGGATCTCTCAGAGCCTCCGACTG
GGTCATTTTGAAGTCTCCTTCAGCCGCCCTGACCGCCAGCCTCTGTGCATTGGTTCCGGAACCGGGGCCAGGG
CCGAGTCCCTGTCCGGGAGTCCCCCATCACCACTTAGCGGAAAGCTTCTCTTCTGCCCAAGTCAGCCCCAT
GGACTCTGGGGCCTGGGGCTGCATCCTCACCTACAGAGATGGCTTCAACGTCTCCATCATGTATAACCTCACTGT
TCTGGGTCTGGAGCCCCAACTCCCTTGACAGTGACGCTGGAGCAGGTTCCAGGTGGGGCTGCCCTGCCGCCT
GCCTGCTGGTGTGGGACCCGGTCTTTCTCACTGCCAAGTGGACTCCTCCTGGGGGAGGCCCTGACCTCCTGGT
GACTGGAGACAATGGCGACTTTACCCTTCGACTAGAGGATGTGAGCCAGGCCAGGCTGGGACCTACACCTGCCA
TATCCATCTGCAGGAACAGCAGCTCAATGCCACTGTACATTGGCAATCATCACAGTGACTCCCAAATCCTTTGG
GTCACCTGGATCCCTGGGGAAGCTGCTTTGTGAGGTGACTCCAGTATCTGGACAAGAACGCTTTGTGTGGAGCTC
TCTGGACACCCCATCCCAGAGGAGTTTCTCAGGACCTTGGCTGGAGGCACAGGAGGCCAGCTCCTTTCCAGCC
TTGGCAATGCCAGCTGTACCAGGGGGAGAGGCTTCTTGGAGCAGCAGTGTACTTCACAGAGCTGTCTAGCCCAGG
TGCCCCAACGCTCTGGGAGAGCCCCAGGTGCCCTCCCAGCAGGCCACCTCCTGCTGTTTTCTACCCCTTGGTGTCT
TTCTCTGCTCCTTTTGGTGACTGGAGCCTTTGGCTTTTACCTTTGGAGAAGACAGTGGCGACCAAGACGATTTTC
TGCCCTTAGAGCAAGGGATTACCCCTCCGCAGGCTCAGAGCAAGATAGAGGAGCTGGAGCAAGAACCGGAGCCGGA
GCCGGAGCCGGAACCGGAGCCCGAGCCCGAGCCCGAGCCGGAGCAGCTCTGACCTGGAGCTGAGGCAGCCAGCAG
ATCTCAGCAGCCAGTCCAAATAAACGTCCTGTCTAGCAGC

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FIGURE 599

MWEAQFLGLLFLOPLWVAPVKPLQPGAEPVWVAQEGAPAQLPCSTIPLQDLSLLRRAGVTWQHQPDSGPPAAA
PGHPLAPGPHPAAPSSWGPRPRRYTVLSVGPGGLRSGRLPLQPRVQLDERGRQRGDFSLWLRPARRADAGEYRAA
VHLRDRLSCRLRLRLGQASMTASPPGSLRASDWILNCSFSRPDRPASVHWFRNRGQGRVPVRESFHHHLAESF
LFLPQVSPMDSGPWGCILTYRDGFNVSIMYNLTVLGLEPPTPLTVYAGAGSRVGLPCRLPAGVGTRSFILTAKWTP
PGGGPDLLVTGDNGDFTLRLEDVSQAQAGTYTCHIHLEQQNLNATVTLAIITVTPKSFGSPGSLGKLLCEVTPVS
GQERFVWSSLDTPSQRSFSGPWLEAQEAQLLSQPWQCQLYQGERLLGAAYFTELSSPGAQRSGRAPGALPAGHL
LLFLTGLVLSLLLLVTGAFGFHLWRRQWRPRRESALEQGIHPRQAQTQDRGAGARTGAGAGAGTGARARARAGAA
LTWS

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FIGURE 600

GTTTTCAGGCTCTTGGCGGTGAAGGTCAGAGTGCAGACCTGAGACCCTGCTCACCAGCTTCAGACTCCAGTTA
TCTGTGCCCCAGCTTCCCTCACTTAGTCTCAGAAGACTTAGGCTGAGGCCTCAGAAGGAGATCTCCATCCTTTGTC
CAGAGCAGAACAGGATGGCCATGTCCCAGGAATCATTGACCTTCAAGGACGTGTTTGTGGACTTCACCTGGAGG
AGTGGCAGCAACTGGACTCTGCCCAGAAGAACTCTACAGGGATGTATGCTTGAGAACTACAGCCACCTGGTGT
CCGTGGGGTATCTAGTTGCGAAGCCTGATGTGATCTTCAGGTTGGGACCAGGTGGAGAGTCTGGATGGCAGATG
GGGGGACCCCGGTACGGACCTGTGCAGAAGTCTGGCAAGTTGATGAGCAGATAGATCACTACAAGGAAAGCCAAG
ACAAACTTCTTGGCAAGCTGCATTTCATAGGCAAGGAAACACTGAAGGATGAAAGCGGTCAAGAATCCAGAACAT
GTAGAAAAAGCATTATCTGAGCACAGAATTTGATTCTGTAAGGCAAAGACTCCCTAAATATTATTTCGTGGGAAA
AGGCATTCAAAACATCATTAAACTTTCTTGGTCAAAATGGAAGCTATGTAAGAAAGAAAGATGATGGATGTAAA
GCATATTGGAAGTATGCTTCCATTATAATCTTCATAAAGCTCAACCTGCAGAGAGATTTTTTGACCCTAATCAA
CGAGGGAAAGCCCTCCACCAAAAGCAAGCCCTTAGAAAAAGTCAGAGAAGTCAAAGTGGGGAGAACTCTACAAA
TGTACTGAATGTGGAAAAGTGTATCCAGAAAGCAAACCTTAGTTGTACATCAAAGAACTCACACCGGAGAGAAA
CCTTATGAATGCTGCGAATGTGCAAAAGCCTTCAGCCAGAAGTCAACCCTCATAGCACACCAGAGAAGTCAACACA
GGGGAGAAGCCCTATGAATGCAGTGAATGTGGAAAAACCTTTATCCAGAAGTCAACTCTGATTAAACATAAGAAA
ATTCATATGGAGAGAGACCCTATAAATGCAGTGTCTGTGAGAAAGCCTTCAGTAGGAAGTCAACTCTCATTAAAC
ATCAGATAATTCATATGGGAGAAACCTTATGAATGTAATAAATGTGGGAAATCTTTAGTGTTAAATCAACTCTC
ATTGTATGTCACAGAACATAAATGCATAAGTTGCATGCTATTGTGAATAGTGTGATGAAATTTGCACTGTCCTG
CTCTTTCTGCTCAGGATGCAAATCAGTGAATCTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTCTGTCAT
CCAAACTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCCGCCTCTTGGGTCAACCGATTCTCCTGCCT
CAACCTCCCAAATAGTTGGGATTACAGGCACATGCCACCATACGCAGCTAATTTGTATTTTTTAGTAGAGACAGGG
TTTACCATGTTGGCCAGCCTGGTCTTGAACCTCTGACCTCAAGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCT
GGGATTACAGGCATGAGCCACTGCACCCGGCTTGAATCATCCTTTTGTCCAGTATTATATCCATGCTGTATATGC
TACCCGCCCCTAGTCCCTTAGCTGTCTCAGTTGTCAGATTGACTGTGATGGGATTGCAGTGTTCATTAAAGC
TACCTTATTGTATAATGACCCCAAAGTGCAAGAGTAGTGATGTTGGCAATTTGCATACACCAAAAAATAAGTTAT
AAAGTGCTTCTTAAAGTGAAATGGTTAAAGTCTTGACTTAATAAAGAAAAAAATGTATGCTGAGGTTGTTAA
GATTTACAGTAAGAATGAATCTTCTATCCAGAAATTGTGAAGGAGGAAAAAGAACTTGTGCTAGTTTTGCTGTC
ACATCTGAAACTGCAAAAGTTGTGGCCACAGTGCATCATAAGTGCTAAGACGAAAAAGACATTAAATTTGCGGAT
GGAAGGCGTGAATAGAAATGGGTCTGACAGCAATCAGGTTCCGTACTATTACAGTTTCAGGCATCCGCTAGGG
ATCTTGGAACATATCCCCCATGGATAAGGGAGGGGTACTGTACCTTGTGATATTGTGATTAAAGAATTCATTGA
GTGTAATCATGTAAGTCTAACACACATTTAAAAAGCTCTCAGATATCATTTTCGCCTTCGGTTGATGTAAGAAAAT
TCAAAGCTACTCAAATCATTCAATAAATGATAAAATTATTTAAAAA

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FIGURE 601

MAMSQESLTFKDVFDFTLEEWQQLDSAQKNLYRDVMLENYSHLVSVGYLVAKPDVIFRLGPGGESWMADGGTPV
RTCAEVWQVDEQIDHYKESQDKLPWQAAFIGKETLKDESGQESRTC RKSIYLS TEFD SVRQRLPKYYSWEKAFKT
SFKLSWSKWLCKKER

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FIGURE 602

AGATTGCGGGCCGCGTTCGACGGTGGCGCCACCGGTCCCGCCGGGCGCCCGCGGGACGCGCCGCCAGGGCCCTCTC
CGCCGGGGGCTCGGCGCTCGCCACCTCTTCCAAATTTAAACCATTACCTAAATCCGAAGGGAAATGAGCAAACCT
CTCGGATTGGGTGTCAAGGTCTCCTCCGGGCTGGGGCTGAGCAAGCCCTCGGAGTGACCGTGGGTGACAGCGGT
CCAGGGACTCTTGGGGCGCAGTGGGGAAAGTGCCGGACCACCATGCGCGCTCATTCTCGTCAAAAGCAAGAAG
GCTCACAGCTACCACCAGCCGCGCTCCCCAGGACCAGACTATTCCCTCCGTTTAGAGAATGTACCGGCGCCTAGC
CGAGCAGACAGCACTTCAAATGCAGGCGGGGCGAAAGCGGAGCCCCGGGACCGTTTGTCCCCGAATCGCAGCTG
ACCGAAGCCCCAGACAGAGCCTCCGCATCCCCAGACAGCTGCGAAGCAGCGTCTGCGAACGGAGCTCGGAGTTT
GAGGACTTCTGGAGGCCCCCGTACCCCTCCGCGTCTCCAGCCTCGGAGAAGTCAATGTGCCCATCGCTGGACGAA
GCCCAGCCCTTCCCCCTGCCTTTCAAACCGTACTCATGGAGCGGCCTGGCGGGTTCTGACCTGCGGCACCTGGTG
CAGAGCTACCGACCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCCTCTTCTGTGAACCCGCCCCGGAGCCT
GGCCACCCGGCCGCGCTGTACGGCCCGAAGCGGGCTGCCGCGCGCGCGGGGCGCGGGGCGCCAGGGAACCTGCATC
GCAGGGGCGGGTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGGCTGTAT
GAAAAGCCCCACGGCAGCGCGGGCTTGCTGTACCCCGAGCGTGGCCACCGGCTGCACGCAAACAAAGGCGCTGGC
GTCAAGGTGGAGTCGGAGCTGCTGTGCACCCGCTGCTGTGGGCGGCGGCTCTACAAGTGCATCAAGTGCAGC
AAGGTGTTTTCCACGCCGACGGGCTCGAGGTGCAGTGCAGGTCCACAGCGGTACCAGACCCCTTTGCCTGC
GAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAAGCCGTGCACTCGCAGGAACGGAGC
TTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTATCCACACTGTCCACACACCTGCTTATCCACTCAGAC
ACTCGGCCCTACCCCTGTCTAGTACTGTGGCAAGAGGTTCCACCAGAAGTCAGACATGAAGAAACACACTTTCATC
CACACTGGTGAGAAGCTTCAAGTGCCAGGTGTGCGGCAAGGCATTAGCCAGAGCTCCAACCTCATCACCAC
AGCCGCAAACACACAGGCTTCAAGCCCTTCGGCTGCGACCTCTGTGGGAAGGTTTCCAGAGGAAGGTGGACCTC
CGAAGGCACCGGGAGACGCAGCATGGGCTCAAATGAGCACCCCTGGCTGGCTGCAAGCAGCAGTACACAACACTA
CAGAGGGCAGCCTCCCTGCTTGCCACCACTCTGCTCCCTGCTTGCTCCACTCCCTTCTGACTTCCAGACCCCA
GGTCCAGTCTGCAGATCCTACCAGTTGCTCCTCCTTCGCCTTACCTCCTGGAGCTGCCAGAAGAAATGAGGTAC
CTTTTCAAAGTGCAGCCGAGAGTGAGAACCAAGTGAATCCCTAGGCTTCGGACACAAATAGGCTCCTCTACACCT
GAAGACAAAGGCAAAGTCAAATGGGGACCAGAATAAATCTTAGACCCACAGTCCTTCCCATTTCAGCCTTAAT
CTACAGACAGGAATGCCCTTCAGGTTTCTTCCCTTCCCCCTTCTTGACCTACCCAGATATTTGTGTGGAAGAGGA
GGAATCACCATTACAAGGTGGACAAATGCTAATATTTTTATCTAGAAAGAAGAGTGAGTGTTAACTTTTATTTT
TTTCTTCTGGGGGCTCTGTGACTCCTTTCTTTTGGGTGCTGCCATAAATCTTGAGGAATCATTTCTCCTCC
TCAAAAACCTGATTCAAGAACTGACTTGGGGAAGGAATTTAATACTTTGAAGTCATGAGATGCACCATCGAGGCTA
CCCCCAAGAAGAAGCAGAAGAGAAGTTGGTAATGAGAGGGGATTAGAGGTCCCTCCCTTCAGTAGGGCTGTGAAA
CCTCATCACTGGAGGTAAGCAAGCAAGCAATGCCTGTGGACAAGATGTCATTCACTCAGCAAATGTTTCATG
GATCACCGGCTACCAAGTACCAGGCACCATGTTAGGTATTGGGGAAGAGAGACTGAAGTCACAACCCCTGACTGC
TCCTCAAAAGCTAACGGTTGCACCTCCAAGTGGCTGGGTCTGTTCTTACTCTTGAGGGGAATTCTGAGAAGACAG
CACAGAATTGTAAACCTTCCCTTTTGACCCCTTTTGATTATTCAGGTGTAAACAAAAGCTGAACAGTTACTTC
AAAGATATGTGTATATTAGTTTTTTATTGTTAAGCTGATATTTTAAAGATTTCTGAGCTAGCAGGCATGTGG
GAAGGAAGGCTCTGTCTTCAACTCTTGACCCCTCATGTGTACCATAGAGGGGGGAAAGGTGGTATTTTCACTTT
GATGAGGTTGGTAAATGTTTTTAGATCTTCTGGTAAGCATTATGTTTGTAAATACATATTTATTAGAGTGATGTT
TTAAGTTAATAAAGTATTAAGAGTAAAAA

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FIGURE 603

MPRSFLVKS KKAHSYHQPRSPGPDYSLRLENVPAPSRADSTSNAGGAKAEPRDRLSPESQLTEAPDRASASPRQL
RSSVCERSSEFEDFWRPPSPSPASEKSMCPSLDEAQPFPFPKPYSWGLAGSDLRHLVQSYRPGALERGAG
LGLFCEPAPEPGHPAALYGP KRAAGGAGAGAPGNCIAGAGATAGPGLGLYGDFGSAAAGLYEKPTAAAGLLYPER
GHR LHANKGAGVKVESELLCTRLLGGGSYKCIKSKVFSTPHGLEVHVRRSHSGTRPFCACEMCGKTFGHAVSLE
QHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHS DTRPYPCQYCGKRFHQKSDMKKHTFIHTGEKLHKCQVCGK
AFSQSSNLITHSRKHTGFKPFGCDLCGKGFQRKVDLRRHRETQHGLK

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FIGURE 604

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCGGGGGGCTGCACCTGCCTTGCCTTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCCGGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTGAACTGCGGTACCGGCGG
GCATTGAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAATCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTTCTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAATGACCAGACACTGACCATCCACTC
TACCCCTCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATG
CAGCCCATGCCACCTGCCATCACAGGGTTGGGCCAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTGGCCTCAGAAATTCACAAAATTCCACAAAACTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCT
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTGAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCTTTGTTTTGATGTTTGTGGCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTC
CTTCTCTCCATCCCTACCCCTAAGAGCCATTTAGGGGCCACTTTTACTAGGGATTGAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCTCACTCCAGTCCAAATGTCCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGAGTTCAGCACCACCCTAGTCCCTTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGCCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA
GGGCTGACTAGAAGGGCCAGTCCCTGCCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTTCTGCTCCACCCTTGGCCTGTCT
CATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGAT
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGCACTGCGCGTGCACGTGGA
GAGCTGGTGCCCGGAGATTGGACGGCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTCT
GGCTCCTGAGGGGCATCTGCCCCTCCCCAACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCAAGTTCAGTAATAAACTGTGTTTACTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 605

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAEAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 606

AACACATTTTCATCTGGGCTTCTTAAATCTAAATCTTTAAATGACTAAGTTTCTTCCTTTTCTCTGTTTTTCCT
AATAGTTGGGGCTTATATGACTCATGTGTGTTTCAATATGGAAATTATTGGAGGGAAAGAAGTGTCACCTCATT
CAGGCCATTTATGGCCTCCATCCAGTATGGCGGACATCACGTTTGTGGAGGTGTTCTGATTGATCCACAGTGGGT
GCTGACAGCAGCCCAC TGCCAATATCGGTTTACCAAAGGCCAGTCTCCCACTGTGGTTTTAGGCGCACACTCTCT
CTCAAAGAATGAGGCCTCCAAACAAACACTGGAGATCAAAAAATTTATACCATTCTCAAGAGTTACATCAGATCC
TCAATCAAATGATATCATGCTGGTTAAGCTTCAAACAGCCGCAAACTCAATAAACATGTCAAGATGCTCCACAT
AAGATCCAAACCTCTCTTAGATCTGGAACCAAATGCAAGGTTACTGGCTGGGGAGCCACCGATCCAGATTCATT
AAGACCTTCTGACACCCTGCGAGAAGTCACTGTTACTGTCTAAGTCGAAAACCTTGCAACAGCCAAAGTTACTA
CAACGGCGACCCTTTTATCACCAAAGACATGGTCTGTGCAGGAGATGCCAAAGGCCAGAAGGATTCCTGTAAGGG
TGACTCAGGGGGCCCTTGATCTGTAAAGGTGCTTCCACGCTATAGTCTCTGGAGGTGATGAATGTGGTGTTC
CACAAAGCCTGGAATCTACACCCTGTTAACCAAGAAATACCAGACTTGGATCAAAAGCAACCTTGTCCTCCCTCA
TACAAATTAAGTTACAAATAATTTTATTGGATGCACTTGCTTCTTTTTTCTAATATGCTCGCAGGTTAGAGTTG
GGTGTAAGTAAAGCAGAGCACATATGGGGTCCATTTTGCCTTGTAAGTCATTTTATTAAGGAATCAAGTTCTT
TTTCACTTGTATCACTGATGTATTCTACCATGCTGGTTTTATTCTAAATAAAATTTAGAAGACT

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FIGURE 607

MTKFSSFSLFFLIIVGAYMTHVCFNMEIIGGKEVSPHSRPFMASIQYGGHHVCGGVLDIPQWVLTAHCQYRFTKG
QSPTVVLGAHSLSKNEASKQTEIKKFIPFSRVTSDPQSNDIMLVKLQTAAKLNKHVKMLHIRSKTSLRSGTKCK
VTGWGATDPDSLRLPSDTLREVTVTVLSRKLCNSQSYNGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFH
AIVSGGHECGVATKPGIYTLLTKKYQTWIKSNLVPHTN

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FIGURE 608

GGGGCGACGTGAGCGCGCAGGGGGGCGGCGCCTCGCCTCGTCTCTCTCTCTGCGCCTGGGTGCGGTGGGTGACG
CCGAGAGCCAGAGAGATGTCGGATTTTCGACAGTAACCCGTTTGCCGACCCGGATCTCAACAATCCCTTCAAGGAT
CCATCAGTTACACAAGTGACAAGAAATGTTCCACCAGGACTTGATGAATATAATCCATTCTCGGATTCTAGAACA
CCTCCACCAGGCGGTGTGAAGATGCCTAATGTACCCAATACACAACCAGCAATAATGAAACCAACAGAGGAACAT
CCAGCTTATACACAGATTGCAAAGGAACATGCATTGGCCCAAGCTGAACTTCTTAAGCGCCAGGAAGAAGTAGAA
AGAAAAGCCGCAGAATTAGATCGTCGGGAACGAGAAATGCAAAACCTCAGTCAACATGGTAGAAAAAATAATTGG
CCACCTCTTCCTAGCAATTTTCTGTGCGGACCTTGTTTCTATCAGGATTTTCTGTAGACATTCTGTAGAAATTC
CAAAAGACAGTAAAGCTTATGTACTACTTGTGGATGTTCCATGCAGTAACACTGTTTCTAAATATCTTCGGATGC
TTGGCTTGGTTTTGTGTTGATTCTGCAAGAGCGGTTGATTTGGATTGAGTATCCTGTGGTTCTTGCTTTTTACT
CCTTGTTCAATTTGTCTGTTGGTACAGACCCTTTATGGAGCTTTCAGGAGTGACAGTTCATTTAGATTCTTTGTA
TTCTTCTTCGTCTATATTTGTCAGTTTGCTGTACATGTACTCCAAGCTGCAGGATTTTATAACTGGGGCAATTGT
GGTTGGATTTTCATCCCTTACTGGTCTCAACCAAAATATTCTGTTGGAATCATGATGATAATCATAGCAGCACTT
TTCACAGCATCAGCAGTCATCTCACTAGTTATGTTCAAAAAAGTACATGGACTATATCGCACAAACAGGTGCTAGT
TTTGAGAAGGCCCAACAGGAGTTTGCAACAGGTGTGATGTCCAACAAAACGTCCAGACCGCAGCTGCAATGCA
GCTTCAACTGCAGCATCTAGTGCAGCTCAGAATGCTTTCAAGGGTAACCAGATTTAAGAATCTTCAAACAATACA
CTGTTACCTTTTGAAGTGTACCTTTTCTCCAGTTACTGTATTCTACAAATATTTTATGTTCAAAACACACAGTA
CAGACAGCATGGATATTTCTGTTCACTTGTGCATGGGCTAAAACCAGGAAAACCTTCCTTGCTTATTACTTTAC
CTAATAGTTTCTTAATATTTTCAAGTCCCCCTTGCAAAAAAATATTACATGCTAAATAAATATTCTCCATATTTT
GGGGGATGACATTCAGTGAATTATTTTCAAGTGGTGACCCACTGAAAATTAATAATGGTACTTATGATTAAAAACGC
ATTTAATACTAAGTGCAGTAGTTCTTTCAAGAATCTTTAGAGATAAGGATTGCACATTGGAAAAGTAAACCATGT
TTCATTCCCTTTTCCCTATTTATATTGAAAGAAATAGGCCAGCAGAGACTTAGGGATTTTAAATTGGCTTGCTTT
TTAGCTGTTTCAGTCACCAGTGAAGAGCCTATGTGCATTTTGTAGTAGATAATGTAAAATTTGTCATCTTTTTCT
TTTCTTTTTTTTAGAATAGCTGATATTTTGATAACAATCTCTAATTTGCATGGGCACCACATTTCTTATATTAAA
AGAATTAGTGTTTTGGCTTCTGTACTGCTTATGGTTGTAGGATTTCAGGGGTTAATGGAATCACAGAAATGATATT
CTGCAAGAATTTCTTTTAAATAAAAAGTTTGGGGGTGCAATATAAGAAGTTTATATAATATGCAGTACATTATCC
AAAAGAGAAGGTAGTTAATGCAGTAGAAAGTAGTGGTAATAATTCTTTTTT

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FIGURE 609

MSDFDSNPFADPDLNNPFKDP SVTQVTRNVPPGLDEYNPFSDSRTPPPGGVKMPNVNTQPAIMKPTEEHFAYTQ
IAKEHALAQAE LLKRQEELERKAAELDRREREMQNLSQHGRKNNWPPLP SNFPVGPCFYQDFSVDIPVEFQKTVK
LMYYLWMFHAVTLFLNIFGCLAWFCVDSARAVDFGLSILWFLLFTPCSFVCWYRPLYGAFRSDSSFRFFVFFVY
ICQFAVHVLQAAGFHNWGNCGWISSLTGLNQNI PVGIMMIIAALFTASAVISLVMFKKVHGLYRTTGASFEKAQ
QEFATGVMSNKT VQTAAANAASTAASSAAQNAFKGNQI

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FIGURE 610

GGGAGGCGTGAGCCACCGCGCCTGTCCAGGAATCAGTTTTTTCCAACAAGTTTTTGGACTCCACTTTGAGAAATC
CTGACCTGCACTATGCCTGAAACACTCCAAAGGGGGTGCTGATCTGGAGACAGATCTGTCCTGGGACCTGTTTCA
GCCCTGTGAGCTCCTGGTGGCTGAGTTGAAGGGTGTTGGCCCAAAGGCAGGGCAAAGCTAGCTTCTGGGTTCCTT
CAGCCCCTGCAAGGTTTGGGACTCTGTCCACAGGTCCAGACCCAGTACTTATTATGAACTGTGGGGGTGCATCC
TGGTGCCAGCACTGAGGAAGTTAAACGAGCTTCTTCTCCAAGTCCAAAGAGGTACCCGTACCCCTGAGGTGGGG
AGGGGGAGCAGGAACTTTGAGCCAGTGGGGGTGTGCTTCAAATTCCCAGGAGTAGACCAGCATCTCTGGTGGGTG
CCACATTTTTTTCAGCCCTCATAGGGAGTGGCAGGTGCTCAATGGTAGGGGAAAGGCTGTGGGCAGGAGCCAGGGG
TCCTGTCTGATGGGCTGGGCTTGGTTTTCTTGACCTGCCTGCCTGCTCTTGAGAAACCTGGACCAGGGCATATGG
TGAATGCAGGGGGCTGGCAGGTGGGGAGGGCTTGAACACAGGAGGAAGCAGGAGTCCATGCTCTCTGGCCTTCTG
AGGAGTGGGCAGGCCTGAGTGAGGGTCACTGACCAGGCAGGGCCTCTGGGTATGACTGGAGCCCTGGTGGGTGGA
TGTCATCAGCATGGGTCCTGGGGAGGGACAGGCAAAGGGAGATAAGGGGAGTCTGCCCCACCCAGCTGCACCC
AGACCGGGACCCTGGGAACCCAAGCCTGCACAGCCGCTTTGTGGAGCTGAGCGAGGCATACCGTGTGCTCAGCCG
TGAGCAGAGCCGCCGAGCTATGATGACCAGTCCGCTCAGGTAGTCCCCCAAAGTCTCCACGAACCACAGTCCA
TGACAAGTCTGCCCACCAAACACACAGCTCCTGGACACCCCCCAACGCACAGTACTGGTCCCAGTTTCACAGCGT
GAGGCCACAGGGGGCCCCAGTTGAGGCAGCAGCAACACAAACAAACAAACAAGTGTGGGGTACTGCCTCCTCCT
CATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGGTGATGCCTGTTCTCCCCGGGGTGATGGGCAAAGGG
CAGGAGGGTGGGTGAATTCCAGTGTGGTCAGCCAGTCTCCACAGCACCTCGTGGCCCGTACTCTGTGTCTCTC
AAGCTAAACTGCTTGAAGTTGGTCTCTGGACCTCTCCTTACTTATTAAAGGCAGCGCTGCACCAAAAAAAAAA
AAAAA

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FIGURE 611

MGPGEQAKGDKGSPAPPQLHPDRDPGNPSLHSRFVELSEAYRVLSREQSRRSYDDQLRSGSPPKSPRTTVHDKS
AHQTHSSWTPPNAQYWSQFHSVRPQGPQLRQQQHKQNKQVLGYCLLLMLAGMGLHYIAFR

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FIGURE 612

GGGCTGCTCCACGCTTTTGCCGGAGACAGAGACTGACATGGAACAGGGGAAGGGCCTGGCTGTCCTCATCCTGGC
TATCATTCTTCTTCAAGGTACTTTGGCCCAGTCAATCAAAGGAAACCACTTGGTTAAGGTGTATGACTATCAAGA
AGATGGTTCGGTACTTCTGACTTGTGATGCAGAAGCCAAAAATATCACATGGTTTAAAGATGGGAAGATGATCGG
CTTCCTAACTGAAGATAAAAAAAATGGAATCTGGGAAGTAATGCCAAGGACCCTCGAGGGATGTATCAGTGTA
AGGATCACAGAACAAGTCAAAACCACTCCAAGTGTATTACAGAATGTGTCAGAACTGCATTGAACTAAATGCAGC
CACCATATCTGGCTTTCTCTTTGCTGAAATCGTCAGCATTTTCGTCCTTGCTGTTGGGGTCTACTTCATTGCTGG
ACAGGATGGAGTTCGCCAGTCGAGAGCTTCAGACAAGCAGACTCTGTTGCCCAATGACCAGCTCTACCAGCCCCCT
CAAGGATCGAGAAGATGACCAGTACAGCCACCTTCAAGGAAACCAAGTTGAGGAGGAATTGAACTCAGGACTCAGA
GTAGTCCAGGTGTTCTCCTCCTATTTCAGTTCCTCAGAAATCAAAGCAATGCATTTTGGAAGCTCCTAGCAGAGAGA
CTTTCAGCCCTAAATCTAGACTCAAGGTTCCCAGAGATGACAAATGGAGAAGAAAGGCCATCAGAGCAAATTGG
GGGTTTCTCAAATAAAATAAAAAATAAAACAAATACTGTGTTTCAGAAGCGCCACCTATTGGGGAAAATTGT

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FIGURE 613

MEQGKGLAVLILAILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGKMIGFLTEDKKKWNLG
SNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLFAEIVSIFVLAVGVYFIAGQDGVRQSRASDK
QTLLPNDQLYQPLKDREDDQYSHLQGNQLRRN

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FIGURE 614

GATTTCAGTTGAAAGATGTGTTTTGTGAGTAGAGCACCAGCAGAAGAACTGAAGACTGTTGTGTGCTCCCCGCAG
AAGGGGCTACCATGATCCTTTCCTCCTATAACACCATCCAGTCGGTTTTCTGTTGCTGCTGTTGCTGTTTCTAGTGC
AGAAGCGACAAATGAGAACACAGATAAGCCTGAGCACAGATGAAGAGCTTCCAGAAAAATACCCAGCATCGCA
GGCCGTGGCTCAGCCAATTGTCAAATAAGAAGCAATCCAACACGGGCCGTGTGCAGCCGTCAAACGAAAGCCAC
TGCCTCCCCTCCCACCCTCTGAGGTTGCTGAAGAGAAGATCCAAGTCAAGGCACCTTTATGATTTTCTGCCCAGAG
AACCCTGTAATTTAGCCTTAAGGAGAGCAGAAGAATACCTGATACTGGAGAAATACAATCCTCACTGGTGGAAAGG
CAAGAGACCGTTTGGGGAATGAAGGCTTAATCCCAAGCAACTATGTGACTGAAAACAAAATACTAATTTAGAAA
TATATGAGTGGTACCATAGAAACATTACCAGAAATCAGGCAGAACATCTATTGAGACAAGAGTCTAAAGAAGGTG
CATTTATTGTGAGAGATTCAAGACATTTAGGATCCTACACAATTTCCGTATTATGGGAGCTAGAAGAAGTACGG
AGGCTGCCATAAAACATTATCAGATAAAAAAGAAATGACTCAGGACAGTGGTATGTGGCTGAAAGACACGCCCTTC
AATCAATCCCTGAGTTAATCTGGTATCACCAGCACAAATGCAGCCGGTCTCATGACTCGTCTCCGATATCCAGTTG
GGCTGATGGGCAGTTGTTTACCAGCCACAGCTGGGTTTAGCTACGAAAAGTGGGAGATAGATCCATCTGAGTTGG
CTTTTATAAAGGAGATTGGAAGCGGTCAGTTTGGAGTGGTCCATTTAGGTGAATGGCGGTCACATATCCAGGTAG
CTATCAAGGCCATCAATGAAGGCTCCATGTCTGAAGAGGATTTCATTGAAGAGGCCAAAGTGATGATGAAATTAT
CTCATTCAAAGCTAGTGCAACTTTATGGAGTCTGTATACAGCGGAAGCCCTTTACATTGTGACAGAGTTTCATGG
AAAATGGCTGCCTGCTTAACATATCTCAGGGAGAATAAAGGAAAGCTTAGGAAGGAAATGCTACTGAGTGTATGCC
AGGATATATGTGAAGGAATGGAATATCTGGAGAGGAATGGCTATATTCATAGGGATTGGCGGCAAGGAATTGTT
TGGTCAGTTCAACATGCATAGTAAAAATTTACAGCTTTGGAATGACAAGGTACGTTTTGGATGATGAGTATGTCA
GTTCTTTTGGAGCCAAGTTCCCAATCAAGTGGTCCCCTCCTGAAGTTTTCTTTTCAATAAGTACAGCAGTAAAT
CTGATGTCTGGTCATTTGGAGTTTTAATGTGGGAAGTTTTTACAGAAGGAAAAATGCCTTTTGAAAATAAGTCAA
ATTTGCAAGTCGTGGAAGCTATTTCTGAAGGCTTCAGGCTATATCGCCCTCACCTGGCACCAATGTCCATATATG
AAGTCATGTACAGCTGCTGGCATGAGAAACCTGAAGGCCGCCCTACATTTGCGGAGCTGCTGCGGGCTGTACAG
AGATTGCGGAAACCTGGTGAACCGGAAACAGAATGCCAACCCAAAGAGTCATCTTGCAAACTGTCATTTATTGTG
AATATCTTCACCATATGGGGTCACTTATGGTGAATATCTTTCTTCAGAGTTGCTGACTCTTGAAAACAGTGCAAA
GATCACAGTTTTTAAAAGTTTTAAAAATTTAAGAATATTCACACAATCGTTTTTCTATGTTGTGAGAGGGATTTC
ACACTCTTATTTTTCTGTAAATATTTACATCCCAAATGTGAAGAAGTGAAAAAGACTTCGCAGCAGTCTTCAT
TGTGGTGTCTTTCATGATCATAGCCCCAGGAACCCCTTGAGGTTCTTCTTCACAAGGCTGAGAGTGCTTCCTTCTT
GAAGACGAGTGTCATTATCATTTCAGTGATCCATGCATAGAATATGAAAATAAATTTCCCACTCATGGGATA
AAGGGGACTCCCTTGAAGAATTTTCATGTTTTTGGGCTGTATAGCTCTTTACAGAAAATGCACCTTTATAAATCAC
ATGAATGTTAGTATTCTGGAAATGTCTTTTGTAAATATAATCTTCCCAGTTTATTTAACAATTTGTTTTGCACA
TATCTGATTATATTGAAAGCAGTTTTTTTGCATTGAGTTTTTAAACACTGTTATAAAATGTAGCCAAAGCTCACC
TTTGAACAGATCCCGGTGACATTCTATTTCCAGGAAAATCCGGAACCTGATTTTAGTTCTGTGATTTTACATTT
TTACATGTGAGATTGGACAGTTTCAGAGGCCTTATTTTGTCTACTAAGTGTCTCCTGTAATTTTCAGGAAGATG
ATTTGTTCTTTCCAGAAGAGGAGACAAAAGCAAGATAGCCAAATGTGACATCAAGCTCCATTGTTTCGGAAATCC
AGGATTTTGAATTC

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FIGURE 615

MILSSYNTIQSVFCCCCCSVQKRQMRTQISLSTDEELPEKYTQHRRPWLSQLSNKKQSNIGRVQPSKRKPLPPL
PPSEVAEEKIQVKALYDFLPREPCNLALRRAEYLILEKYNPHWWKARDRLGNEGLIPSNYVTENKITNLEIYEW
YHRNITRNQAEHLLRQESKEGAFIVRDSRHLGSYTISVFMGARRSTEAAIKHYQIKKND SGQWYVAERHAFQSIP
ELIWIYQHNAAGLMTRLRYPVGLMGSCLPATAGFSYEKWEIDPSELAFIKEIGSGQFGVVHLGEWRSHIQVAIKA
INEGSMSEEDFIEEAKVMMKLSHSKLVQLYGVCIQRKPLYIVTEFMENGCLLNYLRENKGKLRKEMLLSVCQDIC
EGMEYLERNGYIHRDLAARNCLVSSTCIVKISDFGMTRYVLDDEYVSSFGAKFP IKWSPPEVFLFNKYSSKSDVW
SFGVLMWEVFTGKMPFENKSNLQVVEAISEGFRLYRPHLAPMSIYEVMYSCWHEKPEGRPTFAELLRAVTEIAE
TW

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FIGURE 616

ATGTGGTGGAGAGTTCTCAGCTTGCTGGCATGGTTCCCCTTGCAAGAGGCCTCTCTGACTAACCACACAGAAACC
ATCACCGTGGAGGAAGGCCAGACGCTCACTCTAAAGTGTGTCACTTCTCTGAGGAAGAAGCTCTCCCTCCAGTGG
CTGACCCCTCAGGGTTCACCATTTTTTAAATGAGTATCCTGCTTTAAAAAATTCCAAATACCAGCTTCTTCAT
CACTCGGCCAATCAGCTCTCCATCACTGTGCCTAACGTAACCTGCAAGATGAAGGCGTGTAAGTGCTTACAT
TACAGCGACTCTGTAAGCACAAAGGAAGTGAAAGTGATTGTGCTGGCAACTCCTTTCAAGCCAATCCTGGAAGCT
TCAGTTATCAGAAAGCAAAATGGAGAAGAACATGTTGTACTCATGTGCTCCACCATGAGAAGCAAGCCCCCTCCG
CAGATAACCTGGCTACTTGGGAATAGCATGGAAGTGTCGGTGGAACGCTCCATGAATTTGAAACTGATGGGAAG
AAATGTAATACTACCAGCACTCTCATAATCCACACTTATGGCAAAAATTCAACGGTGGACTGCATTATCCGACAC
AGAGGCCTGCAAGGGAGAAAAGTAGTAGCACCTTCCGGTTTGAAGATTTGGTTACTGATGAAGAGACAGCTTCA
GATGCTCTGGAGAGAACTCTCTATCTCTCAAGACCCACAGCAGCCACCAGTACTGTCTCAGTAACGGAAGAT
TCTAGTACATCGGAGATTGACAAGGAAGAGAAAGAACAAACCACTCAAGATCCTGACTTGACCACCGAAGCAAAAT
CCTCAGTATTTAGGACTGGCAAGAAAGAAAAGTGGCATCCTGCTGCTCAGCTGGTGTCTTCTCATTTTTTATA
CTCTTCATCATAGTCCAGCTTTCATCATGAAGCTGAGGAAAGCACATGTGATATGGAAGAGAGAAAACGAAGTT
TCAGAACACACACTAGAAAGTTACAGATCAAGGTCAAATAATGAAGAAACATCATCTGAAGAGAAAAATGGCCAA
TCTTCCACCCCTATGCGTTGCATGAAGTACATCACAAGTTGTACTCAGAAGCAAAAACAAAGAGGAAGGAAAAAT
GTACAACATTCAAAATTAGAAGAAAAGCACATCCAAGTACCAGAGAGTATTGTAGTAGTGTCTCTGCAATGGAAC
ATGTGATTTTCAAGGGTTGCCGAGTGTACCTCAGTGGACCAGCCTGGGGGAAGGAGCTTAATTGCTGAGACATTA
ATAATGACCTCTTAGTGCAATGCAAGATGGTGTCTCGGATAATGATCTGCCCCGGAGCTAGGGCAGCAACATGA
GGACCAAACCATGCACATAAAGCTTGTAGTTTAAAAAAGAAAAGCAAAAAAATAATTATGCCTGACACTACTTCA
GAGCAGGAGGATTCTACGAAGCCTTGGGGATCAGGGTCAAGTGTGAGCAGCTAACATCCTACCTCAAAATGGAACAG
GATTTTTTGTATGCTTTGCTCTAATGGAAGTGTTTAAAAATTTTTTTTTCTTTTAAATATTTTCTTCTGGTCACA
AAATAAAGAAATTTGGGATGCAAGTACCTAAAGATCTCTGATCCTAAGAAGTTACTTCTGGCCAGGCGCGGTGG
CTCATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTAGGCAGATCACTTGAGGTGAGGAGTTGGAGACCAGCC
TGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGGCGTAGTGGTGGCGACCTGTAGTC
TCAGATACTTGGGAGGCTGAGGGTGGAGAATCGCTTGAACCTGGGAGGTGGAGATTGCAGTGAGTCAAGATCTCA
CCACTGAAGTCCAGCCTGGGCGACAGAGGGAGACTCTGTCTCAAAAAAAGAAAGTTACTTCCAAGACAGACTTT
TAACATGTAACCAGCACAAAGCAATGTGAGGGAGGAGTGATACATGACAATAAATGAGTCAGATGAGCAAGAAGG
CCCCAGAACCCATGCCCAAGGCACAAAGAGGAGCTCAGGGTAGGCCCAAAGATTGCAATTCCTTAGATTACTAA
ATCACATGAGCGGACCTTGTCTGTGTCAGATAAGATTTTACCTGGAAATTCATGACCAATACATGTGCAAAAGAA
AATGATGGGTGAAATTTACTGATTATTGACCTAATGGATGGCTTTTAAATGTTTTAATAAAAAGCAGAATAGA
TGTTTGTCTTCTAGTGGTTATACCAAGCTATACTTCTGTTTTCAGTGTGAAAGTAACATGGGACATGCCTTT
CTTTCCGATCAGTTTATTTAAGCTATACAGCAAACTTTGGCATTATGTGGAGCATTCTCATTGTGGAATCT
GAATAAACCAATTACAAAATAAAAA

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FIGURE 617

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTSLRKNSSLQWLTPSGFTIFLNEYPALKNSKYQLLH
HSANQLSITVPNVTLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVVLMCSTMRSPPP
QITWLLGNSMEVSGGTLHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETAS
DALERNLSLSSQDPQOPTSTVSVTEDSSTSEIDKEEKEQTTQDPDLTTEANPQYLGLARKKSGILLTLVSFLIFI
LFIIVQLFIMKLRKAHVIWKRENEVSEHTLESYRSRSNNEETSSEEKNGQSSHMPMRCMNYITKLYSEAKTKRKEN
VQHSKLEEKHIQVPESIV

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FIGURE 618

AGCCGCTGAGAGGCTCTGCGTGTGCGTGTGCGCGGGTGACGCCGTGTGTGTGCGAGTGTGTGTGTGTGTGTGCGC
GCGCGCGTGTGAGAGAGAGAAAGGGAGAGAGAGAGGGGGACTCTGTGTGAGGGAAAGAAAACAATTTCTCCTGCT
CTGCAGCTTCTGTTCAAGGATCAATGTGACTCTAAGAACAAATGGATGAATGAATATCCATATGAAGAGAAAAACA
ATAAGAATATCAACACCTTTGAGAACAGAATGTTAATGCTTGATGGGATGCCGGCAGTCAGAGTCAAAACAGAG
CTTTTGGAATCTGAACAAGGGTCTCCAAACGTCCACAACATATCCCGATATGGAAGCCGTTCCCTGTGCTAAAT
AATGTGAAAGGGGAGCCCCCGGAGGACTCGTTATCTGTAGATCACTTCCAAACACAACTGAGCCAGTGGAATTG
TCAATAAACAAAGCCAGGACGTCCCCTACTGCCGTTTCATCTCCCACTGTTCCATGACAGCATCTGCCTCCTCA
CCTTCTTCAACTTCAACCTCTTCATCGTCTTCTAGTCGTCTAGCCTCATCCCCAACTGTTATCACATCAGTATCT
TCAGCGTCATCTTCGTCAACAGTATTAACCTCCAGGGCCCCCTTGTGGCCTCTGCATCTGGTGTGGAGGCCAGCAG
TTTTTGACATTATCCATCCCGTACCGCCTTCAAGTCCCATGAATTTACAGTCTAACAACTGAGTCATGTTTAC
CGCATCCCCGTGGTGGTACAGTCGGTGCCTGTTGTCTACACAGCTGTAAGGTCACCTGGAAATGTGAACAACACT
ATTGTCGTGCCGCTTTTGGAGGATGGGAGAGGCCATGGCAAAGCACAAATGGACCCCGAGGCCTATCTCCAGA
CAAAGTAAAAGTGACAGTGATGATGATGACCTGCCAAATGTGACCTTAGATAGCGTTAATGAACTGGATCTACG
GCCCTTTCCATAGCCAGAGCAGTACAAGAGTAAGTATCACATTACAGGATGAATTAAGAATTGCCAAGGTGTTT
AATGGATAATGGAACTGCAGCATCTCCTGTCCCCCAGCCATGTCACTCTAGCTGTGAAGTGGCAGCAATGTCAG
CAGCTTTTCATTAGCTGAATGCTCTTTGGGAGATTAGGGCAGAGAATGGAGTGTTTAATGAGTTGGAAATTCA
TGCTTTGATGAGATATAAGACCTATGTGCATCTTTTCTAATACCTCCTGCACCTTCTCCTGAAGTCTGCAAAAA
AAAAAAATTGTTATTTTGAATGTCACTATTTGATTATCATCATATTATTATTACACAAAGTCAAGGGAAATA
TGGCAAAGTATTGTTATCTTGTTTTGATAGGAAATTACAGAATAGCTTTTGGAAAGATTTAAATTTGGAAAATA
TATGTTTCATCCTTTGAAAAGTAGTACTCATATGTTATTTTAAATGAATCTTTTCTGTCTCTTTTACCTGGACC
GCAGGGTTAGATTTAGCCCTCGTTTATTGAAAATAGCTGCTTTTCTATCAGTCAACCTTGTACCTAGAATTGAA
CCTAAATGATTGAAAAA

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FIGURE 619

MNIHMKRRTIKNINTFENRMLMLDGMPAVRVKTELLESEQGSPNVHNYPDMEAVPLLLNNVKGEPPEDSLSVDHF
QTQTEPVDLSINKARTSPTAVSSSPVSMASASSPSSTSTSSSSSSRLASSPTVITSVSSASSSSSTVLTPGPLVA
SASGVGGQQFLHIIHPVPPSSPMNLQSNKLSHVHRIPVVVQSVPVVYTAVRSPGNVNNTIVVPLLEDGRGHGKAQ
MDPRGLSPRQSKSDSDDDDLPNVTLDVNETGSTALSIARAVQEVHPSVSRVRGNRMNNQKFFPCSI SPFSIEST
RRQRRSESPDSRKRRIRHRCDFEGCNKVYTKSSHLKAHRRHTHTGEKPYKCTWEGCTWKFARSDELTRHYRKHTGVK
PFKADCDSRFSRSDHLALHRRRHMLV

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FIGURE 620

GCCCCATCTCCTTGGGCTGCCCGTGCTTCGTGCTTTGGACTACCGCCCAGCAGTGTCTGCCCTCTGCCTGGGCC
TCGGTCCCTCCTGCACCTGCTGCCTGGATCCCCGGCCTGCCTGGGCCTGGGCCTGGTTCTCCCCATGACACCAC
CTGAACGTCTCTTCCTCCCAAGGGTGTGTGGCACCACCCTACACCTCCTCCTTCTGGGGCTGCTGCTGGTTCTGC
TGCCTGGGGCCCAGGGGCTCCCTGGTGTGGCCTCACACCTTCAGCTGCCCAGACTGCCCGTCAGCACCCCCAAGA
TGCATCTTGCCACAGCACCCCTCAAACCTGCTGCTCACCTCATTGGAGACCCCAGCAAGCAGAAGTCACTGCTCT
GGAGAGCAAACACGGACCGTGCTTCCTCCAGGATGGTTTCTCCTTGAGCAACAATTCTCTCCTGGTCCCCACCA
GTGGCATCTACTTCGTCTACTCCCAGGTGGTCTTCTCTGGGAAAGCCTACTCTCCCAAGGCCACCTCCTCCCCAC
TCTACCTGGCCCATGAGGTCCAGCTCTTCTCCTCCAGTACCCCTTCCATGTGCCTCTCCTCAGCTCCCAGAAGA
TGGTGTATCCAGGGCTGCAGGAACCTGGCTGCACTCGATGTACCACGGGGCTGCGTTCCAGCTCAGCCAGGGAG
ACCAGCTATCCACCCACACAGATGGCATCCCCACCTAGTCTCAGCCCTAGTACTGTCTTCTTGGAGCCTTCG
CTCTGTAGAACTTGGAATAATCCAGAAAGAAAAATAATTGATTTCAAGACCTCTCCCCATTCTGCCTCCATTCT
TGACCATTTAGGGGTCGTACCCACCTCTCCTTTGGCCATTCCAACAGCTCAAGTCTTCCCTGATCAAGTCACCG
GAGCTTTCAAAGAAGGAATTCTAGGCATCCCAGGGGACCACACCTCCCTGAACCATCCCTGATGTCTGTCTGGCT
GAGGATTTCAAGCCTGCCTAGGAATTCCCAGCCCAAAGCTGTTGGTCTGTCCCACCAGCTAGGTGGGGCCTAGAT
CCACACACAGAGGAAGAGCAGGCACATGGAGGAGCTTGGGGGATGACTAGAGGCAGGGAGGGGACTATTTATGAA
GGCAAAAAAATTAAATTATTTATTTATGGAGGATGGAGAGAGGGGAATAATAGAAGAACATCCAAGGAGAAACAG
AGACAGGCCCAAGAGATGAAGAGTGAGAGGGCATGCGCACAAAGGCTGACCAAGAGAGAAAGAAGTAGGCATGAGG
GATCACAGGGCCCCAGAAGGCAGGGAAAGGCTCTGAAAGCCAGCTGCCGACCAGAGCCCCACACGGAGGCATCTG
CACCTCGATGAAGCCCAATAAACCTCTTTTCTCTG

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FIGURE 621

MTPPERLFLPRVCGTTLHLLLLGLLLVLPGAQGLPGVGLTPSAAQTARQHPKMHLAHSTLKPAAHLIGDPSKQN
SLLWRANTDRAFLQDGFSLSNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQYPFHVPLLS
SQKMVYPGLQEPWLHSMYHGAAFQLTQGDQLSTHTDGIPHLVLSPTVFFGAFAL

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FIGURE 622

GTTACGCGCCGGCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGCGGAG
GCTGAGCCCCGCTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCGCTGTCCCCGGGGGAGTAGGAGGCTCCTGAC
AGGCCGCGGCTGTCTGTGTCTCTTCTGAGTGTGAGAGGAACGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGC
CAGGGCAGAAAGCGGCGGCAGGAGAAGCAGGCAGGGGGCCGGAGGACGCAGACCCGAGACCCGAGCGGAGGCGGA
CCGCGAGCCGGCCATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGTACATCGCGGTAGCCCGGGCCGG
GGGCATCGAGACCATCGCCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAG
AACAATCGGAGTTGCAGCCAAAAATCAGCAATCACTCATGCAACAATACGGTGTCTAATCTCAAAAGATTTC
TGGCCGAGCATTCAACGACCCCTTCATTCAAAAGGAGAAGGAAAACCTTGAGTTACGATTGTGGTCCATTGAAAA
TGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATGTT
GTTGACTAAGCTGAAGGAACTGCTGAAAAACGCTCAAGAAACAGTAACAGATTGTGTTATTTAGTCCCTC
CTTCTTTACAGATGCTGAGAGGCGATCTGTGTAGATGCTGCACAGATTGTTGGCCTAACTGTTAAGACTTAT
GAATGACATGACAGCTGTTGCTTTGAATTACGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCG
GATAGTGGTTTTTGTGATATGGGACATTGAGCTTTTCAAGTGTCTGCTTGTGCTTTTAAACAAGGAAAAATTGAA
GGTACTGGGAACAGCTTTTGTCTTTCTTAGGAGGAAAAAACTTCGATGAAAAGTTAGTGGAACTTTCTGTGC
AGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAATACGAGCACTCCTACGTCGTATCAGGAATGTGA
AAAAGTGAAGAACTAATGAGCTCTAACAGCAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGA
TGTTTTCCGGAAGATGAACAGGTACAATTTGAAGAACTCTGTGCTGAACCTTCTGCAAAAGATAGAAGTACCCCT
TTATTCAGTGTGGAACAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACG
AATTCAGCTGTGAAGGAAAGAAATTGCCAAATCTTTGGAAGATATTAGCACAACTCAATGCAGATGAAGC
AGTAGCCAGAGGATGTGCATTACAGTGTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTCCGTCACAGA
TGCAGTTCCTTTTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTATGAAGTCTTTAG
TCGAAACCATGCTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGTAGCTAGAAGCTTTCTA
TTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAATAGGCCGCTTTGTAGTTCAGAATGTTTCTGCACAGAA
AGATGGAGAAAAATCTAGAGTAAAAGTCAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATC
TATGGTGGAGAAAGTCCCACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGACC
ACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAAGTTGACCAGCCTCCAGAAGCTAAAAAGCCCAAAATAAA
GGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACCTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATAT
TGAGACAGAGGGTAAGATGATAATGCAAGATAAATTGGAAGAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGA
ATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAATTT
TTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCTAAACAAGCATATGTTGA
CAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTTCCGTTTCAGGAAGCTGAAGAAGGGCCAAAAAT
GTTTGAAGAACTAGGACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATA
CAACCATATTGATGAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTATGGAATGGATGAATAATGT
CATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTAACAACAAATCAA
GGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAATTAATCACCCAACTGGAAAGAAC
TCCAAATGGCCCAATATTGATAAAAAGGAAGAAGATTAGAAGACAAAAACAATTTGGTGTCTGAACCTCCACA
TCAGAAATGGTGAATGTTACCCTAATGAGAAAAATTCGTTAATATGGACTTGGACTAGATAACCTTAAATTGGCC
TATTCCTTCAATTAATAAAATATTTTGGCATAGTATGTGACTCTACATAACATACTGAACTATTTATATTTT
TTTTTTAAGGATATTTAGAAATTTTGTGATTATATGGAAGAAAGAAAAAGCTTAAGTCTGTAGTCTTTATGAT
CCTAAAAGGGAAAAATTGCCTTGGTAACTTTCAGATTCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCAG
TCTCACCATTGTCATCACTGAGGATGAACTGACTTTTGTCTTTTGGAGAAAAAACTGTACTGTTGTTCAAGA
GGGCTGTGATTAAATCTTTAAGCATTGTTCTGCGCAAGGTAGTTTTCTTGCAATTTGCTCTCCATTAGCATG
TGTGTGGGTGTGGATGTTTATAAACAAGACTAAGTCTGACTTCATAAGGGCTTTCTAAAACCAATTTCTGCCAAG
AGAAATGACTTTTGTCTTGTATTTAAATTTCAATGAGTAAACAAAAGCTAGTCAATGTGTTAGCAGCATG
CAGAACAAAACTTTAACTTTCTCTCTCACTATACAGTATATTGTCAATGTGAAAGTGTGGAATGGAAGAAATG
TCGATCCTGTTGTAAGTATTGTGAACACTTTTATGAGCTTTAAATAAAGTTCATCTTATGGTGTCAATTTCT

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FIGURE 623

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAF
NDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEELFSVEQITAMLLTKLKETAENSLKKPVTD CVISVPSFFTD
AERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLP SLDEKPRIVVFVDMGHS AFQVSACAFNKGKLVLT
AFDPFLGGKNFDEKLVEHFCAEFKTKYKLDKSKIRALLRLYQCEKLLKLMSSNSTDLPLNIECFMNDKDVSGK
MNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARG
CALQCAILSPAFAKREFSVTD AVFPFISLIWNHDS EDTGVHEVFSRNHAAPFSKVLTF LRGPFELEAFYSDPQ
GVPYPEAKIGRFVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRP PENP
DTDANEKKVDQPPEAKPKIKVVNVLP IEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYE
FRDKLCGPYEKFICEQDHQNFRLRLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEL
GQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVR AQEIKTKIKELNN
TCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHQNGECYPNEKNSVNMDLD

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FIGURE 624A

TGCAGAGAACAGAGAAAGGACATCTGCGAGGAAAGTTCCCTGATGGCTGTCAACAAAGTGCCACGTCTCTATGGC
TGTGTACGCTGAGCACACGATTTTATCGCGCCTATCATATCTTGGTGATATAACGCACCTCACCTCGGTCAACCC
TTGCTCCGTCTTATGAGACAGGCTTTATTATCCGCATTTTATATGAGGGGAATCTGACGGTGGAGAGAGAATTAT
CTTGCTCAAGGCGACACAGCAGAGCCACAGGTGGCAGAATCCCACCCGAGCCCGCTTCGACCCGCGGGGTGGAA
ACCACGGGCGCCCGCCCGGCTGCGCTTCCAGAGCTGAAGTGAAGCGAGTCTCTCCGCCCTGCGGCCACCGCC
CAGCCCCGACCCCGCCCGGCGGATCCTCACTGCGCGCCAGCTCCCGCGCCACCCCGGAGTTGGTGGCGCA
GAGGCGGGAGGCGGAGGCGGGAGGGCGGGCGCTGGCACCAGGAAACGCCGAGCGCCGCGAGAGCGCGGAGAGC
GCGACACGTGCGGCCAGAGCACCGGGGCCACCCGGTCCCGCAGGCCCGGGACCGCGCCCGCTGGCAGGCGACA
CGTGGAAGAATACGGAGTTCTATACCAGAGTTGATTGTTGATGACACATACTTTTAGAGGATGCTCATTGGCATT
TATGTTTATAATCAGTGGCTGTTGATTAAAGCAAAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCC
TTCCCATGTAATTTTACTTGGATCCACTGTCAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTA
TTCCAGACGTAACAAGTTAATCCTGTACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTC
TCAAGTCACAGGTCTTCCCTTGGTACAACCTTGTGTCTGCAAACTGGCCTGTATCAATAGTGATGAATTCA
AATATGTGGAGCAGAGATCTTCTGTTGGTGTGTGCTCCAGAACAGCCTCAAAATTTATCTGCATACAGAAGGGAGA
ACAGGGGACTGTGGCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAG
TGGACCAAAAATTTAACCTGGCAGAAGCAATGTAAAGACATTTATGTGACTATTGGACTTTGGAATCAACCT
CACCCCTGAATCACCTGAATCCAATTCACAGCCAAGGTTACTGCTGTCAATAGTCTTGAAGCTCCTCTTCACT
TCCATCCACATTACATTCTTGGACATAGTGAGGCTCTTCTCCGTGGGACATTAGAATCAATTTCAAAGGC
TTCCGTGAGCAGATGTACCCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACTCAGATATCGCCCCAG
TAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGATTGCTGGATCTGAAACCATT
TACAGAATATGAATTCAGATTTCCCTCTAAGCTACATCTTTATAAGGGAAGTTGGAGTGATTGGAGTGAATCATT
GAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGTCTGGTACATGAAACGGCACATTGACTACAG
TAGACAACAGATTTCTCTTTTCTGGAAGAATCTGAGTGTCTCAGAGGCAAGAGGAAAAATTTCTCCACTATCAGGT
GACCTTGAGGAGCTGACAGGAGGGAAAGCCATGACACAGAACATCACAGGACACACCTCCTGGACCACAGTCAT
TCCTAGAACCGGAAATTTGGGCTGTGGCTGTGTCTGCAGCAAATTCAAAAGGCAGTTCTCTGCCCACTCGTATTAA
CATAATGAACCTGTGTGAGGCAGGGTTGCTGGCTCCTCGCCAGGTCTCTGCAAACTCAGAGGGCATGGACAACAT
TCTGGTGACTTGGCAGCCTCCCAGGAAAGATCCCTCTGCTGTTTCCAGGAGTACGTGGTGAATGGAGAGAGCTCCA
TCCAGGGGGTGACACACAGGTCCCTCTAAACTGGCTACGGAGTCGACCCTACAATGTGTCTGCTCTGATTTCA
GAACATAAAATCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCAT
CCTGGGTAACCTCTAAGCACAAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT
TTTAATTTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCCATTATAGGATATACTGGAAGGA
ACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCCAAAATTCACATCCAATAAACAG
CCTGCAGCCCCGAGTGACATATGTCTGTGGATGACAGCTCTGACAGCTGCTGGTGAAAGTTCCACGGAAATGA
GAGGGAATTTTGTCTGCAAGGTAAAGCCAATGGATGGCGTTTGTGGCACCAGCAATTGCAATTGCTATCATCAT
GGTGGGCATTTTCTCAACGCATTACTTCCAGCAAAGGTGTTTGTCTCCTAGCAGCCCTCAGACCTCAGTGGTG
TAGCAGAGAAATTCAGATCCAGCAAATAGCACTTGCCTAAGAAATATCCATTGCGAGGAGAGACACAGCT
GCCCTTGGACAGGCTCCTGATAGACTGGCCACGCTGAAGATCCTGAACCGCTGGTCATCAGTGAAGTCCCTCA
TCAAGTGACCCCAAGTTTTCAGACATCCCCCTGCTCCAACCTGGCCACAAAGGGAAGGAATCCAAGGTATCA
GGCCTCTGAGAAAGACATGATGCACAGTGCCTCAAGCCCACCCTCCAAGAGCTCTCCAAGCTGAGAGCAGACA
ACTGGTGGATCTGTACAAGGTGCTGGAGAGCAGGGGCTCCGACCCAAAGCCAGAAAACCCAGCCTGTCCCTGGAC
GGTGTCTCCAGCAGGTGACCTTCCACCCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCTCACATGA
GGCACCTCTCGCTGACTCTCTGGAAGAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTCCCTCAAGTTCTCT
TCACCACCTCACCTTCTCCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTCATGCT
CTGAGTGGTGAGGCTTCAAGCCTTAAAGTCAGTGTGCCCTCAACCAGCACAGCCTGCCCAATTTCCCCAGCCCC
TGCTCCAGCAGCTGTATCTCTGGGTGCCACCATCGGTCTGGCTGCAGCTAGAGGACAGGCAAGCCAGCTCTGGG
GGAGTCTTAGGAACTGGGAGTTGGTCTTCACTCAGATGCCTCATCTTGCCTTTCCAGGGCCTTAAATTTACATC
CTTCACTGTGTGGACCTAGAGACTCCAACCTTGAATTCCTAGTAACCTTCTTGGTATGCTGGCCAGAAAGGGAAT
GAGGAGGAGAGTAGAAACCACAGCTCTTAGTAGTAATGGCATAACAGTCTAGAGGACCATTATGCAATGACTATT

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FIGURE 624B

TCTAAAGCACCTGCTACACAGCAGGCTGTACACAGCAGATCAGTACTGTTCAACAGAACTTCCTGAGATGATGGA
AATGTTCTACCTCTGCACTCACTGTCCAGTACATTAGACACTAGGCACATTGGCTGTTAATCACTTGGAAATGTGT
TTAGCTTGACTGAGGAATTAAATTTTGATTGTAAATTTAAATCGCCACACATGGCTAGTGGCTACTGTATTGGAG
TGCACAGCTCTAGATGGCTCCTAGATTATTGAGAGCCTCCAAAACAAATCAACCTAGTTCTATAGATGAAGACAT
AAAAGACACTGGTAAACACCAATGTAAAAGGGCCCCAAGGTGGTCATGACTGGTCTCATTTCAGAAAGTCTAAG
AATGTACCTTTTTCTGGCCGGGCGTGGTAGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGA

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FIGURE 625

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGC FHYSRRNKLILYKFDR
RINFHHGHSLSNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGVAPEQPQNLS CIQKGEQGT VACTWERGRD
THLYTEYTLQLSGPKNLTWQKQCKDIYCDYLD FGINLTPE SPESNFTAKVTAVNSLGSSSSLPSTFTFLDIVRPL
PPWDIRIKFQKASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMVNVT KAKGRHDLLDLKPFTEYEFQISSKLHL
YKGSWSDWSESLRAQTPEEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSVSEARGKILHYQVTLQELTG GKAMTQ
NITGHTSWTTVIPRTGNWAVAVSAANSKGSSLPTRINIMNLCEAGLLAPRQVSANSEGMDN ILVTWQPPRKDPSA
VQEYVVEWRELHPGGDTQVPLNWLRSPYNVSALISENIKSYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGP
HINAITEEKGSILISWNSIPVQEQMGCLLHYRIYWKERDSNSQPOLCEIPYRVSONSHPINS LQPRVTYVLWMTA
LTAAGESSHGNEREFCLQGANWMAFVAPSICIAIMVGIFSTHYFQQKFVLLAALRPQWCSREIPDPANSTCA
KKYP IAEKTLQLPLDRLLIDWPTPEDPEPLVISEVLHQVTPVFRHPPCSNWPQREKGIQGHQASEK DMMHSASSP
PPPRALQAESRQLVDLYKVLESRGSDPKPENPACPWTVLPAGDLPTH DGYLPSNIDDLPSHEAPLADSL EELEPQ
HISLSVFPSSSLHPLTFSCGDKLTLDQLKMRCDSLML

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FIGURE 626

CTCGAGGCCAAGAATTCCGGCACGAGGGAACCTGTAAACGCTCTCGGAATTATGCGGGCGGTGGATATCCGAGACA
ATCTGCTGGGAATTTCTTGGGTTGACAGCTCTTGGATCCCTATTTTGAACAGTGGTAGTGTCTGGATTACTTTT
CAGAAAGAAGTAATCCTTTTTATGACAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAAC
ACTTGAATCAGATGGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGC
AACAGCGGCAGTCCCCTGCCCCAAGTTATCCCCTAGCTGATTACTATATCATTGCTGGAGTGATCTATCAGGCAC
CAGACTTGGGATCAGTTATAAACTCTAGAGTGCTTACTGCAGTGCATGGTATTTCAGTCAGCTTTTGTGAAGCTA
TGTCACTGTGCGATATCATCCTTCCAAAGGGTATTGGTGGCACTTCAAAGATCATGAAGAGCAAGGTAAGTAGA
ACATCCATACCCTCCTAAAACACTTTTGTATCCTCTGAGAATGAAGCTGTTTTCTTAGGAAAATGGCTGTTGAT
CTTTTCTAAGTGTGTTTCACTTTTTCATGGGATGATGGCTTTGTTGCAGCTGAGATTCATGTAACCTAGAGTGGTA
ATAATAGTTTACATAGGAACAGATGCAAGTTCACCTCTGTTAGTTAACTGGTAGTCTTTGTTAAGGTGATTCAAG
GTTTTAAATATTTGGGGCCAGGTGTGGTGGCTCACTCCTGTAATCCCGGCACCTTGGGAATGCCAAGGCAGGTGG
ATCACCTGAGCCTAGGAGTTCAAGATCAGCCTGGGCAACATAGTGAAACCTGGTCTCTGC

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FIGURE 627

MAAVDIRDNLLGISWVDSSWIPILNSGSVLDYFSERSNPFYDRTCNEVVKMQRLLTLEHLNQMVGIEYILLHAQE
PILFIIRKQQRQSPAQVIPLADYIIAGVIYQAPDLGSVINSRVLTAVHGIQSAFDEAMSYCRYHPSKGYWWHFK
DHEEQGK

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FIGURE 628

CTCATATTTACACAGATGAGTTGGCGAGGAAGATCGACCTATTATTGGTCTAGGCCAATAATAGGTCGATCTTC
CTCGCCAACTCATATTTACACAGATGAATCTCAGTAGAGGAAAATCGACCTATTATTGGCCTAGACCAAGGCGC
TATGTACAGCCTCCTGAAGTGATTGGGCCTATGCGGCCCCGAGCAGTTCAGTGATGAAGTGGAACCAGCAACACCT
GAAGAAGGGGAACCAGCAACTCAACGTCAGGATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCA
GGTCAAGGGCCGAAGCCTGAAGCTGATAGCCAGGAACAGGGTCACCCACAGACTGGGTGTGAGTGTGAAGATGGT
CCTGATGGGCAGGAGATGGACCCGCCAAATCCAGAGGAGGTGAAAACGCCTGAAGAAGGTGAAAAGCAATCACAG
TGTAAAAGAAGGCACGTTGAAATGATGCAGGCTGCTCCTATGTTGGAATTTGTTTATTAAATTTCTCCAATA
AAGCTTTACAGCCTTCTGCAAAGAAAA

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FIGURE 629

MNLSRGKSTYYWPRPRRYVQPPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAQEGEDEGASAGQGPKPEA
DSQEQGHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEKQSQC

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FIGURE 630

CACACCCTGACAAGCTGCCAGGCAGGTTCTTCTCTCACATACTGACCCACGGCTCCACCCTCTCTCCCCTGG
AAAGGACACCATGAGCACTGAAAGCATGATCCGGGACGTGGAGCTGGCCGAGGAGGCGCTCCCCAAGAAGACAGG
GGGGCCCCAGGGCTCCAGGCGGTGCTTGTTCTCTCAGCCTCTTCTCCTTCTGATCGTGAGGCGCCACCACGCT
CTTCTGCCTGCTGCACTTTGGAGTGATCGGCCCCCAGAGGGAAGAGTCCCCAGGGACCTCTCTCTAATCAGCCC
TCTGGCCCAGGCAGTCAGATCATCTTCTCGAACCCCGAGTGACAAGCCTGTAGCCCATGTTGTAGCAAACCTCA
AGCTGAGGGGCGAGCTCCAGTGCTGAACCGCCGGGCCAATGCCCTCCTGGCCAATGGCGTGAGAGATAA
CCAGCTGGTGGTGCCATCAGAGGGCCTGTACCTCATCTACTCCAGGTCCTCTTCAAGGGCCAAGGCTGCCCCTC
CACCCATGTGCTCCTCACCCACACCATCAGCCGCATCGCCGTCCTACCAGACCAAGGTCAACCTCCTCTCTGC
CATCAAGAGCCCCCTGCCAGAGGGAGACCCAGAGGGGGCTGAGGCCAAGCCCTGGTATGAGCCCATCTATCTGGG
AGGGGTCTTCCAGCTGGAGAAGGGTGACCGACTCAGCGCTGAGATCAATCGGCCGACTATCTCGACTTTGCCGA
GTCTGGGCAGGTCTACTTTGGGATCATTGCCCTGTGAGGAGGAGACGAACATCCAACCTTCCCAAACGCCTCCCCTG
CCCCAATCCCTTTATTACCCCTCCTTCAGACACCCTCAACCTCTTCTGGCTCAAAAAGAGAATTGGGGGCTTAG
GGTCGGAACCCAAAGCTTAGAACTTTAAGCAACAAGACCACCCTTCGAAACCTGGGATTAGGAATGTGTGGCCT
GCACAGTGAAGTGCTGGCAACCACTAAGAATTCAAATGCGGCCCTCCAGAACTCACTGGGGCCTACAGCTTTGAT
CCCTGACATCTGGAATCTGGAGACCAGGGAGCCTTTGGTTCTGGCCAGAATGCTGCAGGACTTGAGAAGACCTCA
CCTAGAAATTGACACAAGTGACCTTAGGCCTTCCTCTCTCCAGATGTTCCAGACTTCCTTGAGACACGGAGCC
CAGCCCTCCCCATGGAGCCAGCTCCCTCTATTTATGTTTGCACTTGTGATTATTTATTATTTATTTATTTAT
TTATTTACAGATGAATGTATTTATTTGGGAGACCGGGGTATCCTGGGGGACCCAATGTAGGAGCTGCCTTGGCTC
AGACATGTTTTCCGTGAAAACGGAGGCTGAACAATAGGCTGTTCCCATGTAGCCCCCTGGCCTCTGTGCCTTCTT
TTGATTATGTTTTTAAATATTATCTGATTAAGTTGTCTAAACAATGCTGATTTGGTGACCAACTGTCACTCAT
TGCTGAGGCCTCTGCTCCCCAGGGAGTTGTGTCTGTAATCGGCCTACTATTAGTGCGGAGAAATAAAGGTTGCT
TAGGAAAGAA

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FIGURE 631

MSTESMIRDVELAEEALPKKTGGPQGSRRCLFSLFSFLIVAGATTLCLLHFGVIGPQREESPRDLSLISPLAQ
AVRSSSRTPSDKPVAVVNPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFGQGCPSTHV
LLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEP IYLGGVFQLEKGDRLSAEINRPDYLDFAESGQ
VYFGIIAL

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FIGURE 632A

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTAAACCAACAGC
CGCCAGGCTTCTGTGTAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG
CCTGTTGTGTGCATATTTATTCACTTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG
TCATTTCAATCCGTTTGAGTTTCTGTTTTCTGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATATGAGT
ACTGCAATCTTTTTAATCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAACCTCGACAGGCCCTGT
TTGGCATATGCAATGAACATCAAGAAACCCTTGTCTGTGAAGCATAATTATTTTTCTTCCCTTTTTGAAAG
ATCTTTCTTTTGATGCCAGTTTTCTTCTTGTTTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
TTCAAAATGGCAGAGAAATTTGAAAGTCTCATGAACATTCATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
AAACCATTGGGTTGTGGAGGCAATGGCTTGGTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
AAGAAAATTGTCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAAATTATTAGAAGACTTGAC
CATGATAACATTGTGAAAGTGTGAGATTCTTGGTCCCAGTGAAGCCAATTAACAGACGATGTGGGCTCTCTT
ACGGAACCTGAACAGTGTGTTACATTGTTTACGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT
TTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACCTCTGCAATGTA
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCATTAATACGGAAGACTTGGTGTGAAGATAGGTGACTTTGGT
CTTGACGGATCATGGATCCTCATTATTCCATAAGGGTCACTTTCTGAAGGATTGGTTACTAAATGGTACAGA
TCTCCACGCTCTTTACTTTCTCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
GAAATGCTGACTGGTAAAACCTTTTTGTCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATCCAGTTTACATTAGAAATGACATGACTGAG
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTGGAACAAATTTTGACA
TTTAGCCCCATGGATCGGTTAACAGCAGAAGAGCACTCTCCCATCCTTACATGAGCATATATCTTTTCCAATG
GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGTCAGTTTTTCAGAGCATGATTGGCCTGTACATAACAACCTT
GATATTGATGAAGTTCAGCTTGATCCAAGAGCTCTGTCCGATGTCAGTATGAAGAAGAAGTACAAGTTGATCCC
CGAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT
TGTTGGCAATACCTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACCTTGTAACTACAAAACG
AGGTCATCATATATTTAGATACTTAGTTTGGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAGCTTATT
ATAGATCTTTCCAATTGGAAAGAACAAAGCAAAGAAAAATCTGATAAGAAAGGCAAATCAAAATGTGAAAGGAAT
GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGAAAAGAAATCAG
GGATTGATTTTGATTCTTTTATTGTCAGGAACATTTCAGCTTAGTTCCCAGCATGAGCCTACTGATGTTGTTGAT
AAATTAATGACTTGAATAGCTCAGTGTCCTCACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
AAACAGGAAAAGGAATGGCAAATCTGGCTCAATTAGAAGCCTTGTAACAGTCTTCTGGGACAGCCAGTTTGTG
AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAACTGAGCCAGTAGAG
GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTCTCTTTAACAAGCAG
CTCAGTCCATAGGCATCCCACAGTTTCACAGTCCAGTTGGGTCACCACTTAAGTCAATACAGGCCACATTAACA
CCTTCTGCTATGAAATCTTCCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACCTAAAC
ACTCAGCAGACATTTATCTTTGTATCTTCATGAAATGTGTTTTGTCTTTTTTTTACTAGTGTTTAAGTCATT
TTTTACTTGAATCAGATGGTGTCTTTTAGTAAGGATTTTATGAGTTCTTGTTTTTTAAATCCAGACTTTCTTTT
TCTACATGTGAGATAGTTTTCAATTTAACTGGCATGTCTTTGACACAAAAATAAAGACTAGAGCAAAATAATG
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTACAGGAAA
CAAACCTTGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTCTAAGACAT
TTTTCAATCATGAATATTTTCAAGTTTTCTACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
CCATAGTGCTTCACAAAATGCATTTCTATTTAGCCAGCGTTTATTGTAGTAAACTATTCTTAATAAACTCACTC
ACTGTTTATAAATGTTCTGGTATGCATTTCTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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FIGURE 632B

TCAGTATATTTTCTGTATTTAATTATAAAAAATTAACCTAGTTTTTAAAATTTATTTGCAAATATACTTTTTCCA
TTTGGCACTATGGTTTGTTCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTTCATTTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAATGCTCCTAGAAAGTCTTAATTGTGTTTATTTTTTAAA
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTGTACATGAT
AAGACATTTTGTTTTTACTGTATGTTTTTACTGAATGATCTATTCCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT
ATCTTTGGTTATCCTGTTTGAAGAAAAGGACAAATAAAACATGGCCAGCAATACAAAAA

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FIGURE 633

MAEFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLLSPPNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAEELSHPYMSIYSFPMDEPISSHPPHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWPFVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPKYLGDREKYLEDPAFDTNYSTEPWCWQYSDHHEKNCYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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FIGURE 634

GGCCTTGGGGCTTTGTGAGATAGCTAGGGTCGACTTGTGTGGATTCTAGTAGAACGGAGCTGACCCTATCCGAAC
AGGCCCCCTGCCTGCTTGGATAGAGGCCTCCGAACAGGAGTAAAGAATGGCTGTTGAACATCCACAAGGCACCTGC
AAGACTATGAATCAAAGTTGAGACCAAGAAATTATTTCTGAAAAAGGATATGGAAAACCTTACAAAACACAGCAT
TGAGTGTTCAAGTTTCAGAGGTGATTGGGAATGTAAAAACCAGTTTGAGAGAAAACAGGGATCTCAGGAAGGACA
TTTCAGTGAAATGATAATTTACTCCTGAAGACATGCCCCACTTTCAGTATCCAGCATCAGAGAATTCATACTGATGA
GAAACTCCTTGAATGTAAGGAATGTGGGAAGGATTTTAGTTTTGTATCAGTCCTTGTTTCGACATCAGCGAATTCA
TACTGGTGAGAAAACCTTATGAATGCAAAGAATGTGGCAAGGCCTTTGGTAGTGGTGCAAACCTTGCTTACCATCA
AAGAATTCATACTGGTGAGAAAGCCTTTTGAATGTAAAGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAACCTTAC
TCACCATCAGAGAATTCATACTGGTGAGAAAACCTTATGAGTGTAAAGGAATGTGGGAAAGCCTTTAGTTTTGGATC
AGGCCTTTATACGACATCAGATCATTACAGTGGAGAGAAGCCTTATGAGTGTAAAGGAATGTGGGAAGTCCTTTAG
TTTTGAATCAGCCCTTATTCGGCATCACAGAATTCACACAGGTGAGAAAACCTTATGAATGTATAGATTGTGGTAA
AGCCTTTGGCAGTGGTTCAAACCTTACTCAACATCGGCGGATTCTACTGGTGAGAAAACCTTATGAATGCAAAGC
ATGTGGAATGGCCTTTAGCAGTGGTTCGGCTCTTACTCGGCATCAGAGAATTCATACCGGTGAGAAACCATATAT
ATGTAATGAATGTGGTAAGGCCTTTAGTTTTGGATCAGCCCTTACTCGACATCAAAGAATTCATACTGGTGAGAA
ACCTTATGTATGTAAGGAATGTGGGAAGGCCTTTAATAGTGGCTCAGATCTCACTCAGCATCAGAGAATTCACAC
TGGTGAGAAAACCTTATGAGTGTAAAGGAGTGTGAGAAAGCCTTTAGAAGTGGTTCAAAACCTTATTCAGCATCAAAG
AATGCATACTGGAGAGAAAACCTTATGAATGTAAGGAATGTGGGAAGACCTTTAGTAGTGGTTCAGACCTTACTCA
ACATCACAGAATTCATACTGGTGAGAAAACCTTATGAATGTAAGGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAA
ACTTATCCAACACCAGCTAATCCATACTGGTGAAAGACCTTATGAATGTAAAGAATGTGGAAAGTCCTTTAGTAG
TGGTTCAGCTCTTAATCGGCACCAGAGAATACACACTGGTGAGAAAACCTTATGAATGTAAGGAGTGTGGGAAGGC
TTTTTATAGTGGCTCAAGCCTTACTCAGCATCAGAGAATTCATACAGGTGAGAAAACCTTTATGAATGTAAGAACTG
TGGGAAGGCCTTATGGGAGGGATTGAGAGTTTCAGCAACATAAGAAAAAGTCATAATGGTAAGAACTCTGCGAATT
GGAAACTATAAATTGAAATTATGTGCTGAAGGAAGGACTCTAAACATATGACTTAAGAAAATTCATAGTGGTGAA
AATCTCTACAAATAGAATAAGGTACAAATGCCTTACTTATGCTTCACAGGTTAGTCAGTCTAAGAAATATTTATA
CAGGAAAAAATCACCCCAAATAAAATAAATATTTGAAGATCCTTATCTATATTCATTCCCTTCATTACTTTTGGA
AAATTCCTTACTTGTGAATGTTAAAAATGAAAAAATCATTTATTATATTTTGCCTCAACTTTAAACATTGGAA
AACTCATTCTGGGTTAATC

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FIGURE 635

MENLTKHSIECSSFRGDWECKNQFERKQGSQEGHFSEMIFTPEDMPTFSIQHQRIHTDEKLLECKECKGKDFSFVS
VLVRHQRIHTGEKPYECKECKGAFSGGANLAYHQRIHTGEKPFECKECKGAFSGSNLTHHQRIHTGEKPYECKE
CGKAFSFGSLIRHQIHSGEKPYECKECKGKSFSFESALIRHHRIHTGEKPYECIDCGKAFSGSGSNLTQHRRHT
GEKPYECKACGMAFSSGSALTRHQRIHTGEKPYICNECKGAFSFGSALTRHQRIHTGEKPYVCKECKGAFNSGSD
LTQHRIHTGEKPYECKECKEKAFRSGSKLIQHQMHTGEKPYECKECKGKTFSSGSDLTQHRRHTGEKPYECKE
GKAFSGSKLIQHQLIHTGERPYECKECKGKSFSFGSALNRHQRIHTGEKPYECKECKGAFYSGSSLTQHRIHTG
EKLYECKNCGKAYGRDSEFQQHKKSHNGKKLCELETIN

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FIGURE 636

CCACGCGTCCGCGCTCCCCTCAGCTCCTGCAGTGCTAATTAAGGGAGGGAGCAGCGGGGAGCTTGCAGTGACCAA
GAGGGTGTGAGGCTAGGAGGCCACGATAAACAGGATACGATAAAAGTCCTTAACCAAGACGCAGATGGGAAGAA
GCGTTAGAGCGAGCAGCACTCACATCTCAAGAACCAGCCTTCAAACAGTTCCAGAGATGGATTATCCTACTTT
ACTTTTGGCTCTTCTTCATGTATACAGAGCTCTATGTGAAGAGGTGCTTTGGCATAACATCAGTTCCCTTTGCCGA
GAACATGTCTCTAGAATGTGTGTATCCATCAATGGGCATCTTAACACAGGTGGAGTGGTTCAAGATCGGGACCCA
GCAGGATTCCATAGCCATTTTCAGCCCTACTCATGGCATGGTCATAAGGAAGCCCTATGCTGAGAGGGTTTACTT
TTTGAATTCAACGATGGCTTCCAATAACATGACTCTTTTCTTCGGAATGCCTCTGAAGATGATGTTGGCTACTA
TTCTGTCTCTTTTACACTTACCCACAGGGAACCTGGCAGAAGGTGATACAGGTGGTTTCAGTCAGATAGTTTGA
GGCAGCTGTGCCATCAAATAGCCACATTGTTTCGGAACCTGGAAAGAATGTCACACTCACTTGTGCAGCCTCAGAT
GACGTGGCTGTGCAGGCAGTGAGGTGGGAAAAGATCCAGCCCGTCAGATCGACCTCTTAACCTTACTGCAACTT
GGTCCATGGCAGAAATTTACCTCCAAGTTCCTCAAGACAAATAGTGAGCAACTGCAGCCACGGAAGGTGGAGCGT
CATCGTATCCCCGATGTCACAGTCTCAGACTCGGGGCTTTACCGCTGCTACTTGCAGGCCAGCGCAGGAGAAAA
CGAAACCTTCGTGATGAGATTGACTGTAGCCGAGGGTAAAACCGATAACCAATATACCCTCTTGTGGCTGGAGG
GACAGTTTTATTGTTGTTGTTGTTATCTCAATTACCACCATCATTGTCATTTTCCTTAACAGAAGGAGAAGGAG
AGAGAGAAGAGATCTATTTACAGAGTCTGGGATACACAGAAGGCACCCAATAACTATAGAAGTCCCATCTCTAC
CGGTCAACCTACCAATCAATCCATGGATGATACAAGAGAGGATATTTATGTCAACTATCCAACCTTCTCTCGCAG
ACCAAAGACTAGAGTTTAAAGCTTATTCTTGACATGAGTGCATTAGTAATGACTCTTATGTACTCATGCATGGATC
TTTATGCAATTTTTTCCACTACCCAAGGTCTACCTTAGATACTAGTTGTCTGAATTGAGTTACTTTGATAGGAA
AAATACTTCATTACCTAAAATCATTTTTTCATAGAAGTGTTCAGAAAACCTGACTCTAACTGGTTTATATACAAA
AGAAAACCTTACTGTATCATATAACAGAATGATCCAGGGGAGATTAAGCTTTGGGCAAGGGCTATTTACCAGGGCT
TAAATGTTGTGTCTAGAAATTAAGTATGGGCATAAACTGGCTTCTGAATCCCTTTCCAGAGTGTGGATCCATTT
CCTGGTCTTGGCCTCACTCTCATGCAGGCTTTCTCTTGTGTTGGCAAGATGGCTGCCAACTCTTGGCAATTCAT
ACATCCTTGTCTTCTGTCTGGTAGAGAGTTTGCTTCTCAAATGGAGCAAACAAATTTGATTATTTTTTCATTGTTA
AATAGGCAACATGACCAGAAAGGATGGAATGGCTTAAGTAACTAAGGGTTCACCTCTAGAGCTGAGAAGCAGGG
TCAAAGCACAACTACTGGGCAATTCAGAGCATGGTTAGAAGAGGAAAGGGGAGTCTCAAAGCTGGAGAGTTTACCA
ACAAATATTGACTGCAGTGATTAACCAAGACATTTTTGTAACTAAAAAGTGAAATATGGGATGGATTCTAGAAA
TGGGGTATCTCTGTCCATACTTCTAGAATCCACTCTATCAGCATAGTCCAGAAGAATACCTGGCAGTAGAAGAAA
TGAATATTCAAGAGGAAGATAAATGCGAGAGGGCAATCCTTTACTATTCTCATATTTATTTATCTCTCATTCTGT
ATAGAATTCTTGCCGCCATCCCAGGTCTAGCCTTAGGAGCAAATGTAGTAGATAGTCGAATAATAATAACTTAA
TGTTTTGGACATATTTTGTCTACTTTTGAGAATTATTTTAAATATGTAAATTCTCTCAAAGGGTCAGGCACCTA
GTTATTATTTTTTAATGATTATGTGAAAGTTGAATATAATATACCACTAAAAGTGACAGTTGAAAGTGGTGGCAT
AGGATGGTAGGGTAGAAATTTGGGAGGGGAAAAAGAAATTTGGGAGGGTACAGGCAACAGGAGAAAGGAATCAAAC
CACAGAAAAATACAAAGGGAACTTCTGCTTCACTATTACAGACAAAGACAGCCCTAATGACATCACCAACAGTCA
AAGCAATTAGAGACCATACTAATATTGTTTAAATCTAGATGTAGGCTAACAATGAAAAGTATTTGCCAAACTG
AATAAACTGTCATGGTTACCTTGAAAAA

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FIGURE 637

MDYPTLLLALLHVYRALCEEVLWHTSVPPFAENMSLECVYPSMGILTQVEWFKIGTQQDSIAIFSPTHGMVIRKPY
AERVYFLNSTMASNNMTLFFRNASEDDVGYYSCSLYTPQGTWQKVIQVVQSDSFEEAVPSNSHIVSEPGKNVTL
TCQPQMTWPFYQAVRWEKIQPRQIDLLTYCNLVHGRNFTSKFPRQIVSNCSHGRWSVIVIPDVTVSDSGLYRCYLQ
ASAGENETFVMRLTVAEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRRRRERRDLFTESWDTQKAPNNY
RSPISTGQPTNQSMDDTREDIYVNYPTFSRRPKTRV

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FIGURE 638A

GGCGGCTCGGGACGGAGGACGCGCTAGTGTGAGTGGGGCTTCTAGAACTACACCGACCCTCGTGTCTCCCTTC
ATCCTGCGGGGCTGGCTGGAGCGGCCGCTCCGGTGTGTCCAGCAGCCATAGGGAGCCGCACGGGGAGCGGGAAA
GCGGTGCGGGCCCCAGGCGGGGCGGCCGGGATGGAGCGGGGCCGAGCCTGTGGGGAAGGGGCTGTGGCGGCGC
CTCAGCGGCTGCAGGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGT
TTGGTGGAGAACCATTGTCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGA
TGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCACAAAACCAAAAGGTGTA
GTGGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTCTTGATTGGATTTATGATTGGCTACTTGGGCT
ATTGTAAAGGGGTAGAACCAAACTGAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAG
GAGAGGACTTCCCTGCAGCAGCTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGTCGAGAAACTGGACAGCA
CAGACTTCACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGGCTGGATCTCAAAAAGATG
AAAATCTTGCGTTGTATGTTGAAAATCAATTTCTGTAATTTAACTCAGCAAAGTCTGGCGTGATCAACATTTTG
TTAAGATTGAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACGGTAGACTTGTTTACCTGG
TGGAGAATCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAACTGGTCCATGCTAATTTTG
GTACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTGTCAGAGCAGGGAAAAATCA
CCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATATACATGGACCAGACTAAAT
TTCCCATTTGTTAACGCAGAACTTTTCAATCTTTGGACATGCTCATCTGGGGACAGGTGACCCCTACACACCTGGAT
TCCCTTCCCTCAATCACACTCAGTTTCCACCATCTCGGTGATCAGGATTGCCTAATATACCTGTCCAGACAATCT
CCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAAACAGACTCTACAT
GTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGAAAGAGATAAAAAATCTTA
ACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGGCCAGAGAGATGCATGGG
GCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCAGATGTTCTCAGATATGGTCT
TAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGTGAGAGACTTTGGATCGGTTGGTG
CCACTGAATGGCTAGAGGGATACCTTTCTGCCCTGCATTTAAAGGCTTCACTTATATTATCTGGATAAAGCGG
TTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTGAGAAAACAATGCAAAATG
TGAAGCATCCGTTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAACTCACTTTAG
ACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTTTTTGGCAGGACACAGATT
ATCCTTATTTGGGTACCACCATGGACACCTATAAGGAACGATTGAGAGGATTCTGAGTTGAACAAAGTGGCAC
GAGCAGCTGCAGAGGTGCTGGTCACTGATTAACCAATACAGAGCAGACATAAAGGAAATGGGCTGA
GGTACAACAGCCAACTGCTTTTCTGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCTGA
GTTTACAGTGGCTGATTCTGCTCGTGGAGACTTCTTCCGTGCTACTTCCAGACTAACAACAGATTTCGGGAATG
CTGAGAAAACAGACAGATTGTCATGAAGAACTCAATGATCGTGTGATGAGAGTGGAGTATCACTTCTCTCTC
CCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTCACACGCTGCCAGCTTTAC
TGGAGAACTTGAACCTGCGTAAACAAAATAACGGTGTCTTTAATGAAACGCTGTTGAGAAACAGTTGGCTCTAG
CTACTTGGACTATTGAGGAGCTGCAATGCCCTCTCTGGTGACGTTTGGGACATTGACAAATGAGTTTTTAAATGT
GATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGATCGTGCTAAATTTTCAGT
AGGGCTACAAAACCTGATGTTAAATTCATCCCATCATCTTGGTACTACTAGATGTCTTTAGGCAGCAGCTTTT
AATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTTCC
CTATCTCTAGAATTTTAAAGTCTTTGTAATGGGAAGTGCCTCTTCTGTTGTTGTTAATGAAAATGTCAGAAAC
CAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAAGTGGTTCGCTTACTTTGA
GTGATCCTCCAACCTCATTGATGCTAAATAGGAGATAACAGGTGAAAGACCTTCCAAATGAGATCTAAGCCT
TTCCATAAGGAATGTAGCAGGTTTCTCATTCTGAAAGAAACAGTTAACTTTCAGAAAGAGATGGGCTTGTTC
TTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGCTGGATAAAATGAGGTTCAACTGTTGATTGAGGAATAAGGC
CTTAATATGTTAACTCAGTGTCTATTATGAAAGAGGGGACCAGAACCAAGACTTAGTATATTTCTTTTCC
TCTGTCCCTTCCCCATAAGCCTCATTAGTTCTTTGTTATTTTGTTCCTTCCAAAGCACATTGAAAGAGAAC
CAGTTTACAGGTGTTTGTGAGACTCAGTTTGTGAGACTTTAAGAATAATATGCTGCCAAATTTTGGCCAAAG
TGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTATTTATCAGTGACAGAGTTC
ACTATAAATGGTGTGTTTTTAAATAGAATATAATTATCGGAAGCAGTGCCTTCCATAATTATGACAGTTATACTGT
CGGTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGTTTTGCATTTATGGTCAAC

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FIGURE 638B

ACTTAAGGGTTTTAGAAAACAGCCGTCAGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATT
AAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTTCTAAATGCAGTGAATTG
TGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTTTATAGCTCAGTTTATCCA
AGGTGTAACCTCTAATTTCCCATTTGCAAAATTTCCAGTACCTTTGTGACAATCCTAACACATTATCGGGAGCAGTG
TCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATAT
GTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTCATAATTTCTTCATGCAATGACATCTTCAAAG
CTTGAAGATCGTTAGTATCTAACATGTATCCCACTCCTATAATTCCTATCTTTTAGTTTTAGTTGCAGAAACA
TTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCAACCACTGTAAATGAAATTACTACAAAATTTGAAATTTAG
CTTGGGTTTTTGTACCTTTATGGTTTTCTCCAGGTCCTCTACTTAATGAGATAGCAGCATACATTTATAATGTTT
GCTATTGACAAGTCATTTTAATTTATCACATTATTTGCATGTTACCTCCTATAAACTTAGTGCGGACAAGTTTTA
ATCCAGAATTGACCTTTTGACTTAAAGCAGAGGGACTTTGTATAGAAGTTTGGGGGCTGTGGGAAGGAGAGTC
CCCTGAAGGTCTGACACGCTGCCTACCCATTCGTGGTGATCAATTAATGTAGGTATGAATAAGTTCGAAGCTC
CGTGAGTGAACCATCATATAAACGTGTAGTACAGCTGTTTGTGATAGGGCAGTTGGAACGGCCTCCTAGGGAAA
AGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACTTACCTAGATTTACAGCCTCACTTGAAATGTGTCACACTCA
CAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGACATTTAGCGTAGCTAAGTGAA
AAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGT
ATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAAAACCCTTTCTACAGTTAGGG
TTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAGTGACAA
GCTCCTGGTCTTGAGATGCTTCTCGTTAAGGAGTAGGGCCTTTTGGAGGTAAAGGTATA

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FIGURE 639

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHVMKLAVIDEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLGCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFSTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFKIQVKDSAQNSVIVDKNGRLVYLVENPGGYVAYSKA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTIISRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSSEKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVGAQRDAWGPGAAKSGVGTALLKLAQMFSDMVLKDGFPQPSRSIIF
ASWSAGDFGSGVATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKLKQNNGAFNETLFRNQLALATWTIQGAANALS
GDVWDIDNEF

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FIGURE 640

CCCAGAGCAGCGCTCGCCACCTCCCCCGGCTGGGCAGCGCTCGCCCGGGAGTCCAGCGGTGTCTGTGGAGC
TGCCGCCATGCCCCCGCGGCGGGCGCGCGGCTGCCGGACCCTCGGTCTCCCGCGCTGCTACTGCTGCTGCTGCT
CCGGCCGCGGCGACGCGGGGCATCACGTGCCCTCCCCCATGTCCGTGGAACACGCAGACATCTGGGTCAAGAG
CTACAGCTTGTACTCCAGGGAGCGGTACATTGTAACTCTGGTTTCAAGCGTAAAGCCGGCAGCTCCAGCCTGAC
GGAGTGCCTGTTGAACAAGGCCACGAATGTCGCCCAGTGGACAACCCCCAGTCTCAAATGCATTAGAGACCCTGC
CCTGGTTACCAAAGGCCAGCGCCACCCTCCACAGTAACGACGGCAGGGGTGACCCACAGCCAGAGAGCCTCTC
CCCTTCTGGAAAAGAGCCCGCAGCTTCATCTCCAGCTCAAACAACACAGCGGCCACAACAGCAGCTATTGTCCC
GGGCTCCCAGCTGATGCCTTCAAAATCACCTCCACAGGAACACAGAGATAAGCAGTCATGAGTCTCCACGG
CACCCCTCTCAGACAACAGCCAAGAACTGGGAACCTCACAGCATCCGCCTCCCACCAGCCGCCAGGTGTGTATCC
ACAGGGCCACAGCGACACCCTGTGGCTATCTCCAGTCCACTGTCTGCTGTGTGGGCTGAGCGCTGTGTCTCT
CCTGGCATGCTACCTCAAGTCAAGGCAAACCTCCCCGCTGGCCAGCGTTGAAATGGAAGCCATGGAGGCTCTGCC
GGTGACTTGGGGGACCAGCAGCAGAGATGAAGACTTGGAAAACCTGCTCTCACCACCTATTGAAACTCGGGGAAACC
AGCCCAGCTAAGTCCGGAGTGAAGGAGCCTCTCTGCTTTAGCTAAAGACGACTGAGAAGAGGTGCAAGGAAGCGG
GCTCCAGGAGCAAGCTCACCAGGCCTCTCAGAAGTCCAGCAGGATCTCACGGAAGTCCCGGTTCGGCGCCTCCTG
CGCGAGGGAGCAGGTTCTCCGCATTCCCATGGGCACCACCTGCCTGCCTGTCTGCTGCTTGGACCCAGGGCCCAGC
TTCCCAGGAGAGACCAAAGGCTTCTGAGCAGGATTTTTATTTCATTACAGTGTGAGCTGCCTGGAATACATGTGG
TAATGAAATAAAAACCTGCCCGAATCTTCCGTCCCTCATTCTAACTTGCAGTTCACAGAGAAAAGTGACATAC
CCAAAGCTCTCTGTCAATTACAAGGCTTCTCCTGGCGTGGGAGACGTCTACAGGGAAGACACCAGCGTTTGGGCT
TCTAACCCCTGTCTCCAGCTGCTCTGCACACATGGACAGGGACCTGGGAAAGGTGGGAGAGATGCTGAGCCCA
GCGAATCCTCTCCATTGAAGGATTGAGGAAGAAGAAAACCTCAACTCAGTGCCATTTTACGAATATATGCGTTTAT
ATTTATACCTTCTTGCTATTATATCTATACATTATATATTATTGTATTTTGACATTGTACCTTGTATAAACAA
AATAAACATCTATTTTCAATATTTTAAATGCA

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FIGURE 641

MAPRRARGCRTLGLPALLLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRDPALVHQRPAAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVPGS
QLMPSPKSPSTGTTEISSHESSHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKSRTTPPLASVEMEAMEALPVTWGTSSRDEDELENCSHHL

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FIGURE 642

AAACCACAAGACAGACTTGCAAAAGAAGGCATGCACAGCTCAGCACTGCTCTGTTGCCTGGTCCTCCTGACTGGG
GTGAGGGCCAGCCCAGGCCAGGGCAGCCAGTCTGAGAACAGCTGCACCCACTTCCCAGGCAACCTGCCTAACATG
CTTCGAGATCTCCGAGATGCCTTCAGCAGAGTGAAGACTTTCTTTCAAATGAAGGATCAGCTGGACAACCTGTTG
TTAAAGGAGTCCTTGCTGGAGGACTTTAAGGGTTACCTGGGTTGCCAAGCCTTGCTCTGAGATGATCCAGTTTAC
CTGGAGGAGGTGATGCCCCAAGCTGAGAACCAAGACCCAGACATCAAGGCGCATGTGAACTCCCTGGGGGAGAAC
CTGAAGACCCTCAGGCTGAGGCTACGGCGCTGTCATCGATTTCCTCCCTGTGAAAACAAGAGCAAGGCCGTGGAG
CAGGTGAAGAATGCCTTTAATAAGCTCCAAGAGAAAGGCATCTACAAAGCCATGAGTGAGTTTGACATCTTCATC
AACTACATAGAAGCCTACATGACAATGAAGATACGAAACTGAGACATCAGGGTGGCGACTCTATAGACTCTAGGA
CATAAATTAGAGGTCTCCAAATCGGATCTGGGGCTCTGGGATAGCTGACCCAGCCCCTTGAGAAACCTTATTGT
ACCTCTCTTATAGAATATTTATTACCTCTGATACCTCAACCCCCATTCTATTTATTTACTGAGCTTCTCTGTGA
ACGATTTAGAAAGAAGCCCAATATTATAATTTTTTTCAATATTTATTATTTTACCTGTTTTTAAGCTGTTTCCA
TAGGGTGACACACTATGGTATTTGAGTGTTTTAAGATAAATTATAAGTTACATAAGGGAGGAAAAAAATGTCT
TTGGGGAGCCAACAGAAGCTTCCATTCCAAGCCTGACCACGCTTTCTAGCTGTTGAGCTGTTTTCCCTGACCTCC
CTCTAATTTATCTTGTCTCTGGGCTTGGGGCTTCCTAACTGCTACAAATACTCTTAGGAAGAGAAACCAGGGAGC
CCCTTTGATGATTAATTCACCTTCCAGTGTCTCGGAGGGATTCCCTAACCTCATTCCCCAACCACTTCATTCTT
GAAAGCTGTGGCCAGCTTGTTATTTATAACAACCTAAATTTGGTTCTAGGCCGGGCGCGGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACTTGAGGTCAGGAGTTCCCTAACCAAGCCTGGTCAACATGG
TGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCGCGCACCTGTAATCCAGCTACTTGG
GAGGCTGAGGCAAGAGAATTGCTTGAACCCAGGAGATGGAAGTTGCAGTGAGCTGATATCAIGCCCCTGTACTCC
AGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAATAAAAAATAAAATTTGGTTCTAATAGAACTCAGT
TTTAACTAGAAATTTATTCAATTCCTCTGGAATGTTACATTGTTTGTCTGTCTTCATAGCAGATTTTAATTTGA
ATAAATAAATGTATCTTATTCATC

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FIGURE 643

MHSSALLCCLVLLTGVRASPGGTQSENSCTHFPGNLPNMLRDLRDAF SRVKTFQMKDQLDNLLKESLLEDFK
GYLGCQALSEMIQFYLEEVPQAENQDPDIKAHVNSLGENLKTLLRLRLRRCHRFLPCENKSKAVEQVKNFNLQ
EKGIYKAMSEFDIFINYIEAYMTMKIRN

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FIGURE 644

CTGAAGCTTGCATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTTTTCTTTCTT
CCAGAAGGAGATTTAACCATAGTAGAAAGAATGGAGAATTAATACTGCCTTCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAGTGGAGGTTTCCATTGGAATTCTATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCTGATATGCAGCATGAATGAAAATGGCAAGTT
TCCTGGCCTTCTTCTGTCTCACTTTTCGTGTCTGCCTCCTTTTGTCTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCCTCTGGGCCCATCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAATTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTGATCTTACGTTGATGTGAAGG
GTTACAAGSATGGAGGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCCAACCCCAATACAGTGGAGCA
ACACAAGGGAGAGAATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGGCCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGCAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCCTCTCGGCCTGGAAA
AGACAGCCAGCATTTCCATCGCAGACCCCTTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCTGTCTTGTCTGTCTTCTTGGGGGAGCCGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAAATGAAGCAAGAACAAAGCACAAAGAG
TGAAGCTCTTGAGGAACCTCAGATGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTACGCCTATAATG
AATGGAAGAAAGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAACCCCATCCTCCTTGT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTCATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAATGAGCCCAGAACCAACCTGAAACTTCCTAAGC
CCCCTAAGAAAGTGGGGGTCTTCTTGACTATGAGACTGGAGATATCTATTCTACAATGTGTGGATGGATCGC
ATATTCTACTTTCTTGACGCTCTCCTTCTCTGAGGCTCTATATCCTGTTTTTCAGAATTTTGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTGAAGAAGAAGAGAGTTCTCTCAATCTGACCGAGTGTGATCATTCCCT
AGAGACACCAGTAACCCCGGGCTTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAACCTTTCTCTGCTTCTC
CCTGCCCAGCTCAGAGCTGAGGGCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCACGCACTG
AAGCACTTACTGATACTCATTCAATTATTCTATGACAGTTGTTTGTGTTTGGTACCATCTTATTTCCCTTA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAAACAACACAGCTGG
GATCTAAACAGCAATAACTAACATTAATGGAGAACTTAAATGCTCTGAGTGTGTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCCTGTGCGGTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTTACGCTTCAGTCCCGGCCCTATGGC
CGTTCTTTTCCACCCTGTTTCTTCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCCTTCCAGCTGATTGTCTAGAGC
CTTAGACCCAGCACGCCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAAATACCTAGAGATT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGGATCTCAGTCCCTGCAACCTCCACCTCCTGGGTTCAAACAA
TTCTCCTGCCTCAGCCTCCCGAGTACTGGGAATATAGGTGCAGCCACCACACCAACAAATTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCACCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGGTGACCGGCTTACAGGGATATTTTTAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATTCCTTTCAACTGCTGCC
TGCTAGGGAAAACTACTCCTCATTATCATCATTATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGCAAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 645

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGPGPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFDGDFYEKALVELKVAALGSDL
HVDVKGYKDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSCIRSS
LLGLEKTASISIA DPF FRS AQRWIAALARTLPVLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMKQ
EQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLPDNP
ERFNWHYCVLGCEFSISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRIN
LKLPPPKKVGFLDYETGDISFYNAVDGSHIHTFLDVSEALYPVFRILTLTEPTALSICPA

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FIGURE 646

AATTCCGGAATTCCCCGGCCTGGCCAGGGCGGAGCGGCGCCAGTAGGGACCCATTTCATTGTGCCGGCGCCTCAC
TGGGCACGGGGCCCCAAGCTGACGGCGTGCACGGGAGCCTGCGGAGCCTGGGTGGGAAGAACAGGCCCTGGAGGG
CACTTGACCTTAAGCCTCTTTTCCCTCCGCAGAGAGGAAGCGGGAGAGGAGCCACGTCGCCTGTCACCCAATATC
TCCAGCCGCGCAGTCCCGAAGAGTGTAAAGATGTTTCGCCTGCGCCAAGCTCGCCTGCACCCCTCTCTGATCCGAG
CTGGATCCAGAGTTGCATACAGACCAATTTCTGCATCAGTGTTATCTCGACCAGAGGCTAGTAGGACTGGAGAGG
GCTCTACGGTATTTAATGGGGCCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCA
GCAGAGACATTGATACTGCTGCCAAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTG
GTATTGGAACAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCAT
ATGCTATCCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTGTTGATGGTTGCTTCTTGATTTTGTGTTG
CCATGTAAACAAATTACTGCTTGACATGTTGGCATTATATTAATTACGGATGTAATTCTGTGTATCTTACTGTGA
CTCCGAAAACGTAGTATTGGTGTCTATGGGAATGTACGTTATTTCCAAAGTCATTTATTAAAGATGAAAACCTT

A

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FIGURE 647

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREFQTSAISRDIDTAAKF
IGAGAATVG VAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM

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FIGURE 648

GGCACGAGGGGAGTGGAAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAAATTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTTCATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAGTAACTGCCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCTCCAAATAGTTTCTCCAGCGCAGG
TGGACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTAGGACCAGGAAGGAGTGTTCTCCACCAG
CAATGCAGAGTGTGACTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
ACAAGGTCAAGAAGTACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
CTGTCCAGCCCTGGACAAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
CTGTGGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCCTCTGTGACCCCGCTGCCCTGCGAGAGAGCCAGG
ACACTCTCCGAGATCATCTCCTTTCTTTCGCGCTGACGTCGACTGCGTGTCTCTTCTGCTGTTCTTCTCCTCAC
GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACCATTTATGAGACCAGT
ACAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGGAGGATGTGAAGTGTGAAA
TGGAAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTTCCCAACACACGTTCTTTCTAAATGCCAATGAGTTG
GCCTTTAAAAATGCACCACCTTTTTTTTTTTTTTTGACAGGGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACCTGACTAACTTTTTTGTGTTTTTGTGTTGGTAAAGATGGCATTTACCATGTT
GTACAGGCTGGTCTCAAACTCCTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTGCAGG
CCCGGCCAAAATAATGCACCACCTTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATACCCTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACATAATTATAATCAAAATCAATGCAGGTTTGTTTTTTGGTGCTAATATGA
CATATGACAAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTTCCGTGGGTCTGTCTATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCCTGAGTTTAGGGTCAAGGACAAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAAAGAGTTCAAGTGTCTGTATATCCTATGGTCTTCTCCATCCTCACACCTTCTGCCTTTGTCTCTGC
TCCCTTTTAAGCCAGGTTACATTCTAAAAATTCTTAACTTTTAACATAATATTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAA

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FIGURE 649

MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR
KECSSTSNAECDCTPGFHCIGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNG
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIIISFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFPEEEEGGCEL

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FIGURE 650

GACCACGCGTATCGATGTCGACCCACAGGATTGTACAGAGGGCAGGGTGGTGA CTGAGGACCAGCTCCTCATGC
TTGAGGCTGTGGTGATGCACCTCGGGATCCGCTCTGCCCGCTGTGTCTGGGC**ATG**GAGGGTCAGCAGGTCATCC
TGCACCTGCCCCATATCCCAGAAGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCCTCGAACTCTGCTCCAGGTCC
TACAGGATCCAGCCCTGAAAGACCTCGTCCTACCTGCCCCACCCTGCCCTGGCATTCCCTGATCCTGCGGCCCC
AGTATGAGATCCAAGCCATCATGCACATGCCGAGGACCATTGTCAAGATCCCTTCTACCCTGGAGGTGACGTGG
AGGACGTACCCGCTCCTCCCGGCACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCTGGCCTGGGAAG
GCCCTTTCCCCCTGTCCATGGAGATCCTGGAGGTTCTGAGGGCCGCCCATCTTCTCAGCCCGTGGGTGGGCT
CCTTGCAAAAAGGCCAGAGGCTTTGCGTCTATGGCCTAGCCTACCAACCCTGGCGGGTCTGGCCTCAAGCAAGG
GCCGCAAGGTGCCAGGCACTTCTGGTGTGAGGGGGCTACCAAGGCAAGCTGCGGCGGCGGCAAGGGAGTTCC
CCACGGCCTATGACCTCCTAGGTGCTTTCCAGCCAGGCCGGCCACTCCGGGTGGTGGCCACAAAGGACTGTGAGG
GCGAGAGGGAGGAGAATCCCGAGTTCACGTCCCTGGCTGTGGGTGACCGGCTGGAGGTGCTGGGGCCTGGCCAGG
CCCATGGGGCCAGGGCAGTGACGTGGATGTCTTGGTTTGTACGCGGCTGAGTGACCAAGGCTGGGAAGATGAGG
AGGAAGAGTGCAAAGAGGAGGAGGCAGAGACCCAGAGCGGGTCTGTGCCCTTCCACTTCCCTGGCAGTTTCGTGGA
GGAGAT**TGAG**TGACAGCCGGCGCTACAGCCTGGCAGATCTGACTGCCAGTTTTCAATGCCTTGTGAGGTCAAGGT
GGTGGCCAAGGACACCAAGCCACCCCAATGACCCTCAGAACCTCCTTCTGGGCTGCGGCTGGAGGAGAAGATCA
CAGAGCCATTCTTGGTGGTGAGCCTGGACTCTGAGCTGGGATGTGCTTTGAGATCCCTCCCCGAGGCTGGACCT
GACTGTCTGGAGGCCAAGGGGAGCCAGACTTGCCAGAGGGGTCTCTCCCCATAGCCACAGTGAGGAAGCTGG
AACAGACACCTTTTATTATTGTCTTCGGAAGTTACCAGCCTGTGAGATCCAAGCCCCCACCAGGCCCCCTAA
AAATCAGGGCCTCAGCAAGCAGAGGAGACACAGCAGTGAGGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCA
GCAACACGTTTCGGCTGCCCCAAACCAAGGCGAAGACCTTGCCAGAGTTTCATCAAGGATGGCTCCAGTACGTACAG
CAAGATTCTGCCACAGGAAGGGCCACAGGCCCGCTAAGCCCCAAAGGCAGGATCTAGATGATGATGAACATGA
TTATGAAGAAATACTTGAGCAATTCAGAAAACCATCTAAGTGCTGGAGGAACCACGCTTCCTAACTGCTGCTTC
TCAGGGAATCCGACACCAGCCAACATTTTAAGCCTCTAAAAGACCTCGGGCAAGTCTCACAGAACTGAGCTGC
AGACGGGGAGTAGCTTTGTGGAACTGATTTGATGGACACTGCACCAGCTTCCTTCAGGTTCTAGATTCTTGCTA
CTTAGGGCGGGCTGGTTTGGACCTAACATCTCGCACGTGACTCCCTCAGCCTCAGAGCCTTGGGATGCAGAGCAG
CTGGCAGGGTTCTCTCAATCCTGCAACCCACAGCTGTCCACCGGTGGATGCAGAGGGGAATCCGAGGCCATCAA
CCTTGGTGACAGCAGCGCAGTGCCCAATGCTGATCACTGCATGGGAGATTTTGTAAACGTCTGCCACCCCACT
CTCACCCCAAGCTCTAAGCCCCCGGGAGGCCTGGACTGTCTTCTCATCTCTGTAGCACCAAGCCTGATAGATC
TGTATATGGTAAACAGGGGTTTAAACCATGTGGTTAACATGGATTAATGTGGGAATTTGGCTTCAAGAACACAA
CCTTAGGACCTTGGGCCCCAAAAGCTGGTGGTGAATGAGAGGAGCCAATTTAAGAAGACCCTTATGGAGACCTG
AGGCTGCAGAACTGGTAGGTTTCATCAGGTGGTTAAAGTCGTCAAAGTTGTAAGTGACTAACCAAGATTATTC
ATTTTAAACCACAGAATAAAAATGACACCTGAGCTTCTCC

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FIGURE 651

MEGQQVILHLPLSQGPFWTWEP
SAPRTLLQVLQDPALKDLVLT
CPTLPWHSILRPQYEIQAIMH
MRRITIVKIP
STLEVDVEDVTASSRHVHF
IKPLLLSEVLAWEGPFPLS
MEILEVPEGRPIFLSPWVGS
LQKGQRLCVYGLASPPW
RVLASSKGRKVPRHFLVSG
GYQGKLRRRPREFPTAYDL
LGAFQGRPLRVVATKDCEGE
REENPEFTSLAVGDRL
EVLGPGQAHGAQGSDDVLC
QRLSDQAGEDEEECKEEAET
QSGSCCPSTSLAVSWRR

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FIGURE 652

CTAGCTCTGTGGGAAGGTTTTGGGCTCTCTGGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGC
ATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTGCGACAACCGGGCGCAGAAGATGCA
GACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGA
GTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGA
TGACATCGCCCTGCAATCCACTTCACGCTCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGC GG GT
GTCGGGCAATGCGCGCTGGCGCAGCTCCTGGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCCGAGACCT
CCACTGTCTTCCCTTCCTACAGAACCCTCACACGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTA
CTGCGAAGAAAGCCGGGGCAACAACCAAGTGGGTCCCCCTACATCTCTCTTCAGGAACGCTGAGGGCCCTTCCCAGCA
GCAGAACTCTGTTGAGTTGCTGCCAACAAACAAAAATACAATAAATATTTGAACCCCTCCCCCAGCACAAACC
CCCCAAAACAACCCAACCCACGAGGACCATCGGGGGCAGGTCGTTGGAGACTGAAGAGAAAAGAGAGAGAGGAGA
AGGGAGTGAGGGGCCGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTCCACTCGGGGGTGGAGTGAGACTG
ACTGCAAGCCCCACCTCCTTGAGACTGGAGCTGAGCGTCTGCATACGAGAGACTTGGTTGAACTTGGTTGGTC
CTTGCTGTCACCCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAAGTTGCTCTGTACCCATGAACT
CCCAGTTTGCGAATTAATAAGAGACAATCTATTTTGTACTTGCACCTGTTATTTCGAACCACTGAGAGCGAGATG
GGAAGCATAGATATCTATATTTTTATTTCTACTATGAGGGCCTTGTAATAAATTTCTAAAGCCTCAAAAAA

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FIGURE 653

MTLEELVACDAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEDDIALQIHF
TLIQSFCCDNDINIVRVSGNARLAQLLGEP AETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVASYCEESRGN
QWVPYISLQER

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FIGURE 654

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTCATCATCATGCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAAGGACATGAAGAAAATGGAGATGTTGTCAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCTGGCCTCTACCCCAACAGTACTGA
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAAGTGAATTAAGTCT
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCCTGCA
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
GATCTTGTCATGGACTGGGTTTACACCTGCCATGCAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTCGGCCCTTCATGCTGCTCTGGATGAGCCTACCAACCACCTGGA
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTTAAGCGCATCTTGGTCTCGTCTCCCATTTCCCA
GGATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAAATTA
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCCGGCAGGCCAGAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCGTGAGCGATAAGACACTGTCTATTTTATTT
CCCACCATGTGGCAAGATCCCTCCACCTGTCATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC
TTGCATCTACAATAATCTAGAATTTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAGAGCAGCTGGACTTAGATCTCTACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTTGTCAGACGGGCAGAAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTGAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAGAGGACCCACAACGTGTGCACCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAAACGACGTGTTTGGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGGACCAACCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCTGCTGGGGAGCTGGCCAAGCAC
GCTGTGCTGAGGGGCACCAAGGCTGTACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAAATAAAGG
GTGAACTGTTAAAAA

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FIGURE 655

MPSDLAKKKAAKKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKAAAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVPIPEHIDIYHLTRE
MPPSDKTPLHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDLDACVWLEELKTFKRILVLVSHSQDFLNGVCTNI IHMN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKETLQKMMASGLTERV
VSDKTLSTFYFPFCGKIPPPVIMVQNVSFKYTKDGPCIYNNLEFGIDLDRVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKHSVHKIGRYHQHLQEQLDLDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPMLFLDEPTNHLDIETIDALADAINEFEGGMLLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 656A

CACCAGGTGAATGGCTAAAGAATCTGGAATAAGCTTGAAAGAAATACAGGTCTGGCAAGGCAATGGAAAGTTGG
TCCTGAGAAAAGGGTGCCAGCGATGCCTGGATCGCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCAC
CATGCCACCCCTCCACCAATAAATCCTGGAGGACCGAGGCCAGTGTCTTCACTCCTACTGCATTAAAGCAATGG
CATCAACCATTCTCCTCTACCTGAATGGTGCCCATACCGCCACAGAGATTAGCAATGGTCTGCTCCTC
CACATCATCTGCACTCACAAATCAGCAATTGCCAGCCACTTGTGGTGCTCGACAACCTAGCAAGTTGAAACGCTT
TCTTACCCTCTGCAACAGTTTGGCAATGACATCTCCCTGAGATTGGGAGAAGGTGCGGACTCTTGTCTTGC
ACTGGTGAACCAACAGTGACAATTGAGGAATTCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCTTCGTCC
TTTTGTGATTCCATTTCTCAAGGCCAACCTGCCCTGTGTCAGCGGGAAGTGTGCACTGCGCTCGGGCGGCCAA
GCAGACCCCATCCAGTACCTGGCTCAGCACGAACACCTTCTGCTCAACACAAGCATTGCATCGCCTGCTGACTC
GTCAGAGTTGCTCATGGAGGTGCACGGAATGGGAAGAGGCCAGTCCAGAGAGGAGAGAAGAGAATAGTTTGA
TAGAGACACAATTGCTCCTGAGCCTCCTGCCAAGAGAGTATGTACCATCAGCCCTGCTCCTCGGCACAGTCTGC
TCTCACTGTGCCCTCATGAATCCCGGGGCCAATTCCATCCTACCCCTCCACCTCTTCAGCATTACACCTTAGA
GGATATTGCAACTTCTCACCTGTATCGGGAACCCACAAGATGCTAGAGCATCGAGAAGTTCTGTATAGACACCA
CAGTCTTGGTCTAAATGGAGGCTATCAAGATGAGTTGGTAGATCATCGTTTGACAGAAAGGGAATGGGCTGATGA
ATGGAAACATCTTGACCATGCGCTGAATTGCATTATGGAATGGTAGAGAAAACAAGGCGCTCTATGGCAGTTCT
GCGGCGCTGTAGGAATCAGATCGTGAAGAACTCAACTACTGGAAGACGGTACAATGAAAACACAGAGCTGAG
GAAAACGGGGACCGAGTTGGTCTCCAGGCAGCACAGCCCTGGGAGTGCAGATTCTCTCAGCAATGATTCTCAGAG
AGAGTTCAACAGCAGGCCAGGTACAGGATACGTACCTGTGGAGTTTTGGAAAAAACAGAAGAGCTGTGAATAA
GGTGAAAATTAGGCCATGTGAGAAGTACAGAAGGCCGTGCTGAGGCAGAGCAGAAAGCCTTTGAAGTGATTGC
AACAGAGAGAGCACGAATGGAGCAAACCATAGCGGATGTCAAGCGGCAGGCCGAGAGGATGCTTTCTCGTCAT
CAATGAGCAAGAGGAGTCCACGGAGAATGCTGGAATGTGGCCGCAAAGCCAGCGAGACATGCAGTGGCTGCAA
TATCGCGGATACTGTGGCTCTTTCTGCCAGCACAAGGACTGGGAGCGGCACCACCGCCTCTGTGGTCAGAACCT
GCATGGCCAGAGCCCCACGGCCAGGGCCGGCCGCTGCTTCTGTAGGCAGGGGCTCCTCTGCCAGGTCCGCCGA
CTGCAGCGTGCCAGCCAGCCCTCGACAAGACCTCGGCAACCACATCGCGTTCTCAACACCTGCTTCTGTGAC
AGCTATCGACACCAACGGACTCTCAGCCCCGACTCTGCTTACCCTGATGGCTGCTCAGCACCACAGAGTGTG
GGCTGAGGGACTGACTGTTGGAACCCGTGCATGTAGCTGCCGGGTATCAGCAAGAAATGAATTGGAGGCAGGAA
GAGTCCAAGCCTGAATAATAACACCCACAGCCTCTCTGTGCACTTGTCTGTGCGGAGCCAGTGTGCCATTCTC
TGCACATGGGCAGCCAGCCTGAGCTGCCTCCTCATGGCTTTCTGGTTTGTCTCTCTCCACTGAAGCTGACT
TAGCCGGCCCTTTTCACTGTAGACCACAGCTCCCTCCCATCTCCTTGAGTCAGCAGACTGTCCAATGTGCT
CAGCCAGGCTGGAGGGCCAGGGCCAGGCAGGCTGTGGAGGAGGCCCTCGGTGAGGAGCGGCTGCCTC
ACCCCTGAATAGCTCCTTCGGCCCCATCTCCATCCTCAGCAGATGACACTGATTGGCCTCACGGGGACTTGGGTA
AGCAACAGGCGGCATTAGGACTCTTCTCAACCTGCTGTTGAGACTTGATAAGATCTCAGAGTCCACAGGAAAG
AAGTCACTGTTGCAATAAAAGCACCCGTAGTAGCAAAACATAAACAATAAACTTCCCCACATCAGAGATGA
TTTTGGACAAGATTTTCAACCTGTGCTGGCTACTTTAGTTTGGGACCTGTTTTTTTCTCATTGATTTTGGCTG
TGCAGAAAATAGTTTCCAGCACATGGATTGATCTGAGAGAGAAAGAGGCTCAGTTGTGGATAGTCTGTTTTCT
GAGCATGTTGGCCAACATAGTATCGTCAAATTATTGAGTGGATCATCTTGGAAATGCAGAACTTCTGCCACCAC
TTGGCTATTTGCACAGTCATCTTGTCTGTGCTCTTTATCTCTCAGACCACACATCTGGAACGCTGTGGGCA
TCTTCTGCCCATGGGCTCCATTTGGCACCTGCTGAGCCACAGTTGTCTGCTGGATGTGCTGTGCAAGTTGGTAG
GACTTGCCCCACTGTCAAGGCTGGTCTCATCTGAAAAGCCCTCCTGGACCTCAAAGAATTCTTCAGACCTCAT
AGTTACAGGTCAATTATCTACTATGTTGATTTATCATCAGGCACACAACCTTCTGTTTCTCTTGTGTTATC
TGATAGCGTCCCTCCTTGAGCTCATCAGAAAGTTTTATGAAATGTGAACCATTTTGGGAAAAGCTGATCAATTT
TTCTTCTAGCTTCCATTTTCAAATGGGACATCACTCATATCCCTTTCAGAAATGTTAGGAATGCGCTCCACAT
TCTTCCCTGTCTTTTGGGTTTTGTTTTTGTGTTGTTTTTAAACACAAAGCCTGGGCAACAGAGCAA
AACTCTGTCTCAAAAAAAAAAAAAAAAAAGGCAAAATTAAGAATTCAAGTCCCTAATTTACTCTAACCAAGCAT
TTTCAGTCTTACAAAGAAATCTAGTGCACGACACCTTTAAATGCCTAGATTTCCATTGCCTAAAGTAAGGTGTG
ACCACTGAAACAACAGCAGAGAATCATGTTTCTTGTGTTGGAACACATAAGCCCCACAGTTTCCAGTCAGCCT
AATACATGGGTATCCCCGACCCCATCTGCCTCCTTAAGCCACAGTCTTGGTGGGGAAGTCTAAGGGGGACGGA
GTCAGTACCCCGGACAGGGCCACATTTGCATGAGACATGGCTGTCTCACAGGTACAGAGCCATTACAACAGCTT

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FIGURE 656B

ACTAGTTTTTATGGATTGTTGGATTAAACACCTTAAGCAGGTTTTTTATTGTTATTTGTTTGTGTTGTTT
TGAGACGGGAGTTTTCTCTTGTCTCCAGGCTGGAGTGCAATCGCGCAATCTCGGCTCACGGTAACCTTCGCCT
CCCAGGTTGCGGCGAGTCTCCTGCCTCAGCCTTCTGAGTAGCTGGGATTGCAGGCATGCGCCACCACGCCAACT
GATTTTGTATTTTATGAGACGGGGTTTCTCCTTGTGGTTCAGGCTGGTCTCAAACCCCGACCTCAGGTGAT
CCCCCACCTTGGCCTCCCAAAGTGCCAGGATTACAGGCATGAGCCACTGTGTCCGGTCTTGAGCAGGTTTTTAA
AATCTCCAGTGGCCATAAACTAGCCAGGGTAGCTCATGCTTTTACTGGTTGGAATAAGGAGCCAAAACCAACAA
AATAATATTTATTAGGGTTGGATGCCCATTTCTGTGGTTAAGGCTTAGGTTGGTGTGCAGAGCCTGGCCTGCTC
TTGTGGGCTGTGGTTGCTGTGACAGTTTCGTTTTCTGAATCTTTGTAATGCTCTTCCACCCTGCTCGTGTGCCC
AGAGGCTGATCTGCAAACCTGGGCAGTATTCCACACTGAAGCTCAGTTTGCAAACCTTCTGCTGTGTTAATTCTG
GTCAGTTTCACACAGAAGTCACGAGGGCCTCTGCCAGGACCTTCTATTACATTTCAAGAATCCCTTTCTGAAA
TTCTCCAACTCTCTGGTCAGGAGGAGGAGCACCATTGGGGCGGGGTAGGCAGCTAGAGGCGCAGGAGCGAATCCA
GGTTCTTGTGCTGGTTCCAGCCTCTGCTGACAGCACCTCAGCTACCAGGTGGGGAGTGGAAATTCAGCCTGCTT
AGAGGACTGACCTCTACAGTTTCAATTTGCAGTGACATAAAAGGCAAAGAGGAGCTGGCATGGTGGTACAGAAGG
TATCAGTCAAGCGCAGGCTCTTCAGAAACCTAGAACTAAAAAGAGATGCAACATGTGACTGGCCATCAGCCAGA
CATGTCTAGGGTGAGACCAGTGTCTCAGCACCACCCGCCAAGGAACACTGATGAGTTGTGGGACATTATGGTCGGC
CAAGTGAGGAATGATTGCAGGGACCAGAGAAGACCAAGATGCCAGATGTCCCAGAGTTTCTTGAGGGCTGGGT
TTCACGTCTTTGCTTGTCTTTTGTCCCACTTGCCTGCACCGTGCCTGACTCATCCAGTGGGGAAGGTGACTC
AAGAAGTTGTTTAAAGCTAGGCCTAGGCAGTCCACTTCGGGAGGTGGGGGCACTCCACACTGGGGGGCCCTGCAG
CTCCAGGGCTGGTGTCTTAGCAGATCCGCTCAGGCACGGTTGGGTGACCGTGGGGTCACCGATTGCGTAGATTAT
TTCTAGGGCAGTGTGGGTAGAAATGTCTGTCTGGAACAGGACACATCTGCCACCACAAGTCCACACCTGGC
CTTGGCTGTGCCCCGTCTCTGCAGCGTGGATTTCCTTTGCCCATTTGGGCCAGAAGGTACCAGGAGTTTCATCA
CTGCTTAGTGTCAACTTGACATCTTCAGCTTCAGACAGAAAACCCATGCTTTACTTTGTACAGCCCTGTCCCAG
AGTTAGTAAGCCTCGGCTTGTACCTGCTTGCAAAGGGTATAGACATCATTCTGGGTAGTTCTAGAGGATATCGC
AACAAGTGCCTTTGAAGGTTACGACAGCTGGAATTGTACGGTAGTGAGCTCTTCAAAATGAAAACAGAATGACC
GGATGGCCATCTGTCTTGAAACTGTAGAATTGAATAAATCACTGAAAATAGAACACTTCTTGAGGGCTTTCTTC
AGAACTGAAC TAGAAACAAGGTTTCCAGGCTCCCAGGTCAGTAGACCAAACCAACTTCCTTAGATTTTTTTTTTT
AAGCTGTTTGCAGAAAAC TGGGTGGTAGCGTGTCTGAACCAAACGGAAGAATAGCCAGCGGAGCATGGACTGTTT
CAGCACGGGCGAGATGGCCAGCTGTGAGAGCAGCCCTGCCAGATTGCGGTGGGGGTGTGCCAGCGGCTCCGC
AGGGCCCTTCCAACCTGAGTGTCTGTAGTTCTTGTGAAACCAAACGTTGACTACCTGCCTCTTCTCGGGC
ATCGACGTGCTCATTTCCAAAGATGATGGTGCAGGTGACCTTTTCATCGTGAGCTAAGAGAAGGTTAGGAGGCC
TGAGGGGCGGGCCTTGTGTCCCTCCTCCCCCTCCACAGCCCTGAGGTGGAGCTTCCCTCACAGACCCCATCTG
GTGAGCCTACGGCTGCCAGTGTACACTCAGTGATGCTTATACCAAATAGGGCATGTGCGCTGGTGTCTGTGG
GGACAGCCCCATCCCTACCTTGAGTGGCAGAGAAGCAGCAATAAGCATTAGGCGAATGATTGAAAGGGCTGCT
GCGCCAAGAGGCCTTCAGTCCCCCTAACGTGGCTTTCCAACCTTCTGACGAGGCTACAAAGGCTCCGCTCACAAA
AGAAAGCCAATAATGTAAATAAATAGAAAACGAAGCCTCCACGCGTGGTTTTTAAAGGGGGATGATGAATGTGAC
ACCACCCACAGAATGCATTAGAACTGTTTTCTGTGCTTTGTGCTTTTACTCTGATAGGAATTTTGTACCT
AACTCTGTGCATAACTTATTTAATGTACTGTATAAATGAACCAAACTGTAAATATGTATTTAGTTTGTCTAC
TTAAAGTAGTCAATAAAAAGGCTATATTCCT

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FIGURE 657

MAKESGISLKEIQVLARQWKVGPEKRVPPAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPRPVSFPTPTALSNGINH
SPPTLNGAPSPPPQRFSSNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFGNDISPEIGEKVRTLVLALVN
STVTIEEFHCKLQEATNFPLRPFVIPFLKANLPLLQRELLHCARAAKQTPSQYLAQHEHLLNTSIASPADSSEL
LMEVHGNGKRPSPERREENSFDRDTIAPEPPAKRVCTISAPRHSFALTVPLMNPGGQFHPTPPPLQHYTLEDIA
TSHLYREPKNMLEHREVRDRHSLGLNGGYQDELVDHRLTEREWADEWKHLDHALNCIMEMVEKTRRSMAVLRRC
QESDREELNYWKRRYNENTELRKTGTTELVSQRHSPGSADSLNDSQREFNSRPGTGYVPVEFWKKTEEAVNKKVI
QAMSEVQKAVAAEQKAFEVIATERARMEQTIADVQRQAEDAFVLVINEQEESTENCWNCGRKASETCSGCNIAR
YCGSFCQHKDWERHHRLCGQNLHGQSPHGQGRPLLPVGRGSSARSADCSVPSPALDKTSATTSSSTPASVTAID
TNGL

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FIGURE 658

GAATTCGGCCAAAGAGGCCTATGCTTCTCTGAAGACTTGCAGCAAGGCTTGCTGAGGCTCACAGAAGATAGCCCC
AGTGTGTTGGAGTGGTTTTGAATGTGATTCTGAGATCAGACTGACTGAGCTGGAATCCTGGCTTTATATCTTACC
AGCTACACAACCTTGGAGTCTTAGAAAATTTTTCTTTTCAATAAGCAGTCATCCTTACTTTCCCTCAAGATGACA
AACAGTTCGTTCTTCTGCCCAGTTTATAAAGATCTGGAGCCATTACGATTTTTTTTTATTTAGTTTTCTTGT
GGAATTATTGGAAGTTGTTTTGCAACCTGGGCTTTTATACAGAAGAATACGAATCACAGGTGTGTGAGCATCTAC
TTAATTAATTTGCTTACAGCCGATTTCTGCTTACTCTGGCATTACCAGTGAATTTGTTGTTGACTTGGGTGTG
GCACCTTGGAAGCTGAAGATATTCCACTGCCAAGTAACAGCCTGCCTCATCTATATCAATATGTATTTATCAATT
ATCTTCTTAGCATTGTGTCAGCATTGACCGCTGTCTTCAGCTGACACACAGCTGCAAGATCTACCGAATACAAGAA
CCCGGATTTGCCAAAATGATATCAACCGTTGTGTGGCTAATGGTCCTTCTTATAATGGTGCCAAATATGATGATT
CCCATCAAAGACATCAAGGAAAAGTCAAATGTGGGTTGTATGGAGTTAAAAAGGAATTTGGAAGAAATTGGCAT
TTGCTGACAAATTCATATGTGTAGCAATATTTTTAAATTTCTCAGCCATCATTTTAAATATCCAATTGCCTTGTA
ATTCGACAGCTCTACAGAAACAAAGATAATGAAAATTACCCAAATGTGAAAAAGGCTCTCATCAACATACTTTTA
GTGACCACGGGCTACATCATATGCTTTGTTTCCTTACCACATTGTCCGAATCCCGTATACCCTCAGCCAGACAGAA
GTCATAACTGATTGCTCAACCAGGATTTCACTCTTCAAAGCCAAAGAGGCTACACTGCTCCTGGCTGTGTGGAAC
CTGTGCTTTGATCCTATCCTGTACTATCACCTCTCAAAGCATTCCGCTCAAAGGTCACTGAGACTTTTGCCTCA
CCTAAAGAGACCAAGGCTCAGAAAGAAAAATTAAGATGTGAAAATAATGCATATAAGACAGGATTTTTGTGCTA
CCAATTCTGGCCTTACTGGACCATAAAGTTAATTATAGCTTTGAAAGATAAAAAAAAAAAAAAGCGGCCGC

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FIGURE 659

MTNSSFFCPVYKDLEPFTYFFYLVFLVGIIGSCFATWAFIQKNTNHRCSVSIYLINLLTADFLLTALPVKIVVDL
GVAPWKLKIFHCQVTACLIYINMYLSIIFLAFVSDRCLQLTHSCKIYRIQEPGFAKMISTVVWLMVLLIMVPM
MIPKDIKEKSNVGCMEFKKEFGRNWHLLTNFICVAIFLNFSAILISNCLVIRQLYRNKDNENYPNVKKALINI
LLVTGYYIICFVPYHIVRIPYTLSQTEVITDCSTRISLFKAKEATLLLA VSNLCFDPILYYHLSKAFRSKVTETF
ASPKETKAQKEKLRCE NNA

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FIGURE 660A

TTGAGGTGCATTGAAATGTTCCAAGCTGTTACTTACCTTTAAACATGTTCTTTGAGGTACCATTGGCATGGATTAAGAAAGGAAATTTGGTAAGTGCCCTCCACTTAAACGACTTACTAGGGAAGCTATGTGAAATTATTTAAAGGGCGAGGGGA
TCAAATAGTACTTATCCTTCATGCAAAAGTTGTACAGAAGTCATATGGAATGAAAAAGGTTTTTTGCCCTCCCC
TTGTGTATATCTTATGGGCAGTGGATGGAAGAAAAATAAATTACAAATGAAATGCGATGGTTGTTCTGTAACAAGG
CTCTCATCCATGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGGGAAGGAAAGAA
CTATTGCACAGCCAAAACATTGTACATATCTGATTACAGACAAGCAAAAGCACTTCATGTTGTCTGTAAAGGTGTT
CTATGGCAACGGTGATGACATTGGTGTGTTCTCAGCAAGTCGTCCAAACCTTCCAAAAAGAAGCAGTCATTGAA
AAATGCTGACTTATGCATTGGCTCAGGAACAAAGGTGGCTCTGTTTAAATCGACTACGATCCCAGACAGTTAGTAC
CAGATACTTGCATGTAGAAGGAGGGAATTTTCATGCCAGTTCACAGCAGTGGGGAGCAITTTACATTATTCTTGGA
TGATGATGGATCAGAAGGAGAAGAATTCACAGTCAGAGATGGCTACATTCATTATGGACAAACAGTCAAGCTTGT
GTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACCACATTATTGGATGC
AGATGATCCTGTGTCAAACTCCATAAATGTGCATTTGACCTTGAGGATACAGAAAGAAATGTACTTATGCCTTTC
TCAAGAAAGAATAAATCAATTTTACAGCCACTCCATGCCCAACAGAACCAATAAAGAGATGATAAATGATGGTGCT
TTCTGGGCAATCATTAGCACACATAAGGCGAAGTATACATTTTATGAGAGAATGGGCCCTGTCTTGCCTTGGT
CATGCCATGCTGTGCTAGAGAGCCTTAAGTTGAATGGCGGTGGGGACGAAGCAATGCTTGAACCTTACAGGACA
GAAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAGAGTAT
GCTCCGTGTTGTCCAGACGTTCTGCATTCTGAGAAGGTTGGAGATAGTTCCAGCAACCAGTCCAGGTTTCAGT
AACTTTGGTCCGAAATGATGGAATCATATATTCCACCAGCCTTACCTTTACCTACACACCAGAAGCAGGGCCGCG
GCCACATTGCAGTGTAGCAGGCGCAATCCTTAAGGCCAGTTCAGCCACGTGCCCCCTAATGAATTAACACAAA
CAGCGATGGAAGTTACACAAATGCCAGCACAAATTCACCAGTGTACATCATCTACACCAACAGTGGTATCCTG
AACTACCGTCTTTTTGCTAAGACTCAAACGGCTTGAGTGCAGCAAAAAGTTGACAAAAAAGGAAAAAAATGAA
CAGTCTTTTGTGGTTTATTGGGAACTTTTCATACCAGGTGATACTATTCTAAAACCCCGTTGTCTCCCTGCAAG
TGCTGATTTGAAATGCAGAAGCCACAGTAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAATCAAATGT
ATAAATATTGAAATCAAGTTTTTCAGCTGTTTTGTGTTGGTTGGTTGGTTGGTTTTGTTTGGTTTTGTTTAAAGG
GACAAGAAGTAAATAATGTGGCTGGAATACAAGTTGAACAACTAGAAGACACAAATCTAACATAGTTTTTATGG
ACCAAGGAACCTGTATATTGTATAAGCTTTAGTAAAAGGTACATTTTACCATACCTTTTTTATATCACGGTAT
TATAGTACACCTTGTACCAATAGGTTGTTCTCTTCCCCACCCCTCCTTTGAGCTTTGCTCTAAAATACATTCTGG
TTCCAAGCCTGACCATCCTTGTTTAAATCTATCATACTCTCCAGGTTTTTTTTTTTGGTCTAAGGCTGGAACCTT
TTTCTTTTTTTTTCAGCTGAAGTCTTATGACTTTTTTCATGAGTCAAAATTGTTTGGATTTCAGGAAGTCAAACTT
TGCAAAGGCCCTGCATATTTTTTTAAGATTATATGAAGTCTGTGCAAAAAGCTTTAAAAAATTTGCCTCTGCCTTG
CCTGCATACATGCAATGTATGTAACCTTAGTCTCTCTTCAGACACTGTTGGGTAGTTATTCTGTGTTTTCTTT
TTTTAAAAAATAATGGACTTATTGTGGTTTATCTGAGAGGTTCTAACATTCACATGCAATTTGGTGTGGCAAT
TAGCTATTATGAGTTATTGGCGCGAACTTGTGATATTGAAGTGTCTCTCCCCCTTTTCCCATGACGTAATACA
TAGGTGTGTTCCAGGATTGTTCAGGTTTTTCCCCCCTCCTAATCTTGACATAAATTGTATTTTGTGTAAGTT
AAACATTTTATTGAACTTGGAAATGTTCCAGTGATTTCAATCAGCAGGGTATTTTCTGCCTTGTGGAAGTAG
CAAAAAATATGGGAAGTATTGCTACCAGTTGTTAGATGGTGCCCTTATTGGTAGAATCAGGAAAAATGTCCGCA
AAAGCATGTTTTATTATCTTTACTTTTTTGGGGGGTTGGAGGGGGTAGCCTAGCCAGACATCATGTAATCTTAAA
ACATAAGATGCTTTTTATTAGATGATCAACTAAAAATAGCTGGAAGACAGTACTTTAGAAACAAAATAGTTAGTAA
GATATATAATGCAAAATGTAACCTTATGTTTTTCATTTTTTTCTCTGCCTTTTTTTTTTGTTTTTTTCTTTTTTTCC
AGTACTGAGCATCTCCACAAATGTCTCCTACTCAGAAAATGTTTCTTTCTTTCAGTTGAGATTTGGTGCATTCA
GGGTGTAGGTTGGCCTTGCTTGCTAACCAGCCGGTTTTTACCGTGCTTTATCTCTGAACCTTTGTTTATGCCTTTG
TTTGGTTCTTCTGAAATTGCAGCAGACTCATTGGGCTACATTTAGTACAGGAACCAGTGTGTAATGTTATACAA
CACAGTCAGTAATACAATCATCCCTCTTAGAGTAAAAACTACCTCTAGATTGTGTAAGCTTTTTACTGTCCATAA
AACAGGAGCCACAGTACCTTATGAATGCAAACTGTAACCTCTACAGTGTTTCCCCACAGAACATTGTCTTTCT
GGTGTCTGGGCTGTTTTTGAAAAAGTTTCCATTAATAGACTTTTTAGAAATTATTATTAGTAGCATTTTTTTTCC
AGCTTTGCGTCTTCATCACTCAAGTGTGAGACTATGCACTGTAAATATCTTCTAACATCTTTAAATCGCC
TTTTCTCAGTTTTTCAAGGGGAAGGTCAATTTGTAAAGCACGTTAGGTGGTTAAATCAGTTATTGCGGTTTTCTCT
TACAGCAAGCCTTTTTAATCACCCCCAGGCTGCATTTTTATTCTATATCGCCTTTTTTCTTCAAATCTGCTCCAA

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FIGURE 660B

CATCCACTTCTCTCTTATAAGCTATTCCCTGCCTCACACCTAAATCTGTTTCAGTGATCAAGGGCAGAACTCATTG
TGGCCTTATCTTTCTTTGTTGTAATTGTTCACTGTCTCTTTCTTACAGACCACTTATTCTGAGTAGTAGTTATTC
CTCCCTATGGAGTCATGGCAGGAATCATTACACAGTGCTTTTGTTTCAGAGCATGGACATGTTCCAGGTGCTGCTT
TGCTTTAACGGCCACAAGTTTCTCCACTTCTCAGGTTTGGTATTTAGTAAGGAATCAATTAAATTAACCAATAA
CAAAAGAGATACTTTTGAAGAACAACTATTCTTTACCCATTTTGTAGCTCAAAAATAATTTTCAAGTTCATGA
CCTTATTAAAAATGAACCTTGTTGTTTTTTTAAACAAACGTCTATTTTATTTTGATAGTTTCTTTCCGAAGATAATTGA
AATATTATACTGTAACCCTTTCTTTTCTTTTTTGAAGTCCAAGAATGTACTTATACAGGATTTTCCCCACC
TATTTTGGCCATTCTCATACCACAGACAAAAGAGTGAATGATTGTCATTGTAGCTTATTGTTTATCAGTAGTTC
TTTTGTAGCTGCTTACATTTTTTCTTTTCATGGTTTGTGAATCATTTTCAGTATGTAATTTATAGGAACCTTGTCCT
CTGGTATAGTAGACTGTGTGCCCTCCTCCAGGATGGCATTATTAGACATGCTGGTCATTTACCCTCAGAAAGACT
CTCTTATAGAATGGTGAGTGCTTCAGTTATAGTATGTTTGAATTTAAAAAATTCCTGTTTAGAATGTATCTATG
CTCTCATGACTATGCAGTTTCTAACATACACATAGAAGCTGAGTCTCTGATCCAATATGTTTTATTGTTCCAT
TAATTTATCACATAGATTGGGAAGGCAAGCTAAAAGCCTTAAAAATGCCCTTTATATTTTGAGTGATTTTCAGCGT
TGAACACAGTATACTATCTAAATTTGCTGCTCACTTTCTTAACTGTTGCAATTAAAGGCATGTTTATACATGAC
TAATCGTGAAATGTTTGTCACTCTTACTGCACAGACTTATCTGCAATCAAACGGTTAGTTTTTTGTTTTGTTT
TGTTTTATTGTTTTTAATGAATCTGGTACCATCTGTGCTTTCACAAAAAATCCAATGCCATTTTGTGAACTA
ACCTAACAGTCATGCTAACCCAGAAAATCCACTGGGGAGGAGGTTCCCTTTGAAACAAAATGCTGTTTCAGTTAGTAA
CCAAGTTACTTTGATTGCAAAAGCAGCTGTGTTTCTGATAAGTACTGAACAAATGTGTGTAATTTCTGTGCCAG
ACTTATGACTTTGTTTTCAAGCACTGTAATGTGGGATGGATGGTTAGAAACAATAATATATAGGGTTTCTGTTAA
CCCTTTCAGGACTCAACTGTATCTCCTTTTGTAAATTTCCCTGTGTTGTGATAAATTGTTTGCCAGCATTACG
TACTGTGTTGGTGCAGATGAGGTTTATATCTCATTTTAGCTTATTTCTTGTACCTTTCAGCATGCCACGCATT
AGTCCTTAAGGGGTTTATTTTACAACTGTGCGCCTGAAGTTTATTAGCAATAAGATAGAAAATGAGCAAGTTTA
TACCATAATTTTGAGAAAAAAGAATCTGCTCAGTTCATATTTTCATCCGTGAAAAACTTGCAATACGAGCAGTT
TCAAGGAATAAATAAAAAGGAAATGAAACCATTGT

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FIGURE 661

MSGWKKIKLQMKDGCSEQGSHPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSKQKHFM LSVKVIFYGNG
DDIGVFLSKSSKPSKKKQSLKNADLCIGSGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAF TFLDDDG S
EGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTTLDDADDPVSQLHKCAF DLEDTERMYLCLSQERI
IQFQATPCPTEPNKEMINDGASWAIISTHKAKYTFYERMGPVLALVMPMPVVE SLKLNGGGDEAMLELTGQNFTP
NLRVWFGDVEAETMYRCGESMLRVVPDVLHSEKVGDSQQPVQVSVTLVRNDGIIYSTSLTFTYTPEAGPRPHCS
VAGAILKASSSHVPPNELNTNSDGSYTNASTNSTSVTSSTPTVVS

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FIGURE 662

GGGCGGCGGTTCGGCAGCAAGGCGGCGGTGCGCCGCCGAGCTGCAGTGACATGTCCAGCATGAATCCCGAATATG
ATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTTGGAAAGTCTGCCTTCTTCTTAGGTTTGAGATG
ATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAAATAAGAACTATAGAGTTAGACGGGAAAA
CAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTGGAACAATCACCTCCAGTTATTACAGAGGAG
CCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAA
TAGATCGTTATGCCAGTGAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAG
TAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGAATTCCGTTTTTGGAAACCAGTGCTAAGAATGCAA
CGAACGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAAAAGCGAATGGGTCCCGGAGCAACAGCTGGTG
GTGCTGAGAAGTCCAATGTAAAATTGAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCTTAAATTGCG
TCCATCCTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAA

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FIGURE 663

MSSMNPEYDYLFLKLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERFRT
ITSSYYRGAHGIIVVYDVTQESFNNVKQWLQEIDRYASENVNKLVLGNKCDLTTKKVVDYTTAKEFADSLGIPF
LETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

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FIGURE 664

TCCCGTGGAGCAGAGGGGGCAAAGTGGCAGGAACCTCTTAAAGGGCGAGACGGGCGGCGACCGAGAACGCGGTCCG
CCCCGTCCCCGCCGCCAGCCAGCCAGAGAAGAGTTTGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGA
AGAGGGTGAGGAAGCCATAAACTCAGGCCAACAGAACCTCAGCAGGAGGAATCTTGTCAAACAGCAGCTGAAGG
AGATAATTGGTGTGAACACAAGGTGAAAGCTTCTAATGGAGACACTCCTACACATGAAGACTTGACCAAGAACAA
GGAGCGGACATCAGAAAGCAGAGGACTTTACGACTATTCTCCTCGTTTCTCAAAGGCCCAAATCTCAGGTGTC
CGAGGAAGAAGGCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAGAGATAGAATTTGGAAC
CAGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGGAACCTCAAACAGACCCATCTTT
GGATCTTCATTCAATTAAGCAGTGCAGAAACACAGCCTCACCATTACAATTAAGAATTATTTTAGAGTCTTCTTA
TTTCTGAAGCATGTGAATATTATCTCGATCGTTAAAGTCTGCTCAGGAAGAACTCAGAGAAGATCCAGATTCT
GAAATTAAGGAAGGAGAAGGACTTGAAGAGTGCTCCAAATAGAAGTAAAGAAGAAAGCCCTCAATCAAAGCA
GAAACAGAATTAAGCTTCCCAAAAACCAATCAGAAAACACAGGAACATGCACACTGCAAGGTTTCTTTGTTGGAT
GACACAGTTTATGAATGTGTGTGGAGAAACATGCTAAGGGACAAGATTGCTTAAACGAGTATGTGAGCATCTC
AATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCC
AAAGAAATAAAAAAGCAGGTTCTGTGGTGTCCCTTGAATTTACATTTAATGTAAAGTTTTATCCACCTGACCCA
GCACAGTTAACAGAAGACATAACAAGATATTATTTATGTCTCAGCTTCGGCAGGACATAGTTCAGGACGTCGTG
CCCTGTTCTTTGCAACCTTAGCATTATTAGGTTCTTACACCATCCAGTCTGAACCTGGGAGACTACGACCCAGAA
CTCCATGGCGTGGAATTATGTTAGTGATTTTAACTGGCCCCGAATCAGACCAAGGAACCTTGAAGAGAAGGTCATG
GAACTGCATAAGTCATACAGGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAAGTTG
TCTATGTATGGAGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGT
GGCCTTCTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCCCAAGTGCTGAAGATTTCTTATAAA
CGTAGTAGCTTTTTCATCAAGATTCGGCCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACCTCCC
AGTTACCGAGCAGCTAAGAAATTTCTTGCCTAGGATCCAAATTTGCATACAGTGCCCGGACTCAAGCTCAGACCAGG
CAAGCTAGTGCTCTAATTGACAGGCCTGCCCCACACTTCGAGCGTACAGCAAGTAAACGGGCGTCCCGGAGCCTC
GATGGAGCAGCAGCTGTGATTCGGCAGACCGAAGTCTCGGCCCACTTCTGCACCTGCCATTACTCAGGGTCAG
GTTGCAGAAGGTGGCGTCTAGATGCCTCTGTCTAAAAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAG
GCTGAAGTGAAAAAGGAAGACGAGCCACCTGAGCAAGCTGAGCCAGAGCCCACAGAAGCATGGAAGAAAAAGAGA
GAAAGACTAGATGGTGAAACATTTATATCAGACATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAG
GAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAGAACTTCATGGAGTCTGTACCAGAACCACGGCCT
AGTGAATGGGATAAACGCTTATCCACTCACTCACCTTCCGAACTCTTAACATCAATGGGCAAATCCCCACAGGA
GAAGGACCTCCCTGGTGAAGACACAACTGTCAACATCTCAGATAATGCCAATGCTGTGAAAAGTGAAATCCCA
ACCAAAGACGTCCCTATTGTCCACACTGAGACCAAGACCATCACTTATGAGGCTGCCAGACTGTAAAAGGTGGG
ATTTAGAGACACGTATTGAAAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGTCCTTGTA
CAAGCCATCAAGGAGGCAAAGGAGCAGCACCCAGACATGTCAGTGACCAAGGTGGTCCGTCACCAGGAGACCGAG
ATTGCTGATGAGTGAAGCTCAGGAACCTAACCTACCCCAACTCTGCCCTTCTCCCATCCAAGAGAAACCACGAAAT
GATAAAGAAGCTAACCTGCCATAGTCAGACTTCAGACTTTCAAGATTATTCTAAATCACCAGAAAATTAATTTCA
GTTTCTATTGGGAGTTTATACCAAGAGATTCTTCTAGATCTCATTGATCCTTTTGAAGAGCTTTTCTATATTAG
GATATCAGAATTGTTCAACTTTTCACTCTATAGACTGTTTTAAGAGTTTTGGGGGGTTTTTAAATGGGTGGTTT
TAACCCCTTCAGCCTAG

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FIGURE 665

MHCKVSLDDTVYECVVEKHAKGQDLLKRVCEHLNLL EEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPWNFTF
NVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGVDYVSDFKLAPNQ
TKELEEKVMELHKSYSRSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPW
PKVLKISYKRSSFIFKIRPGEQEQYESTIGFKLPSYRAAKKLWKVCVEHHTFFRLTSTDITPKSKFLALGSKFRY
SGRTQAQTRQASALIDRPAPHFERTASKRASRSLDGAAAVDSADRSRPTSAPAITQGQVAEGGVLDASAKKIVV
PKAQKETVKAEVKKEDEPPEQAEPEPTEAWKKKRERLDGENIYIRHSNLMLEDLDKSQEEIKKHASISELKKNF
MESVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGPPLVKTQTVTISDNANAVKSEIPTKDVPIVHTETKTITY
EAAQTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHPDMSVTKVVVHQETEIAD E

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FIGURE 666

CTGTATTGTGGTTCCCTGGAACACTTTAGAGGCTTGTGATTCTACTGCTTCTTATTCACACTATAATACATGTCTC
ACCAATAGATGATTCAAGAACATCATTTAAATACACAATTTTTCATTCTCTATTTTTGCTAAATTTCTTCATACT
CAACTTTCAGATTCTTTAATCTCCAGCTCAGCTTCAACAATTCAACGCTGTTCTTTCTGAAAAAGTACACATCGT
GCCTTCTCTACTTCGCTCTTGGAACATAATTTCTCATGGCAGCTTTTACTAAACTGAGTATTGAGCCAGCATTTA
CTCCAGGACCCAACATAGAACTCCAGAAAGACTCTGACTGCTGTTCTTGCCAAGAAAAATGGGTTGGGTACCGGT
GCAACTGTTACTTCATTTCCAGTGAACAGAAAACCTTGGAAACGAAAGTCGGCATCTCTGTGCTTCTCAGAAATCCA
GCCTGCTTCAGCTTCAAAACACAGATGAACTGGATTTTATGAGCTCCAGTCAACAATTTTACTGGATTGGACTCT
CTTACAGTGAGGAGCACACCGCTGGTTGTGGGAGAATGGCTCTGCACTCTCCAGTATCTATTTCCATCATTTG
AAACTTTTAATACAAAGAACTGCATAGCGTATAATCCAAATGGAAATGCTTTAGATGAATCCTGTGAAGATAAAA
ATCGTTATATCTGTAAGCAACAGCTCATTTAAATGTTTCTTGGGGCAGAGAAGGTGGAGAGTAAAGACCCAACAT
TACTAACAATGATACAGTTGCATGTTATATTATTACTAATTGTCTACTTCTGGAGTCTATAAAATGTTTTTAAAC
AGTGTCAATATACAATTGTCATGTATGTGAAACAATGTGTTTTAAATTTGATGAAATTCGTTACCTACATTTGAG
AATTATAAAATTAACATAAAGAATTTTGTATTTTCATTTAATGTATATAATGTTAAATTCATGTAGTTTTATTA
CACATTTATGTAATTTTATTACATTCTTGCTAATTCTCAGCAGAAATTTAAATAAGATTTAATTCACATCAAAT
AAAATTTAGAAAATAAAATTTAACTCACACTGCCCAGGCTGGAGCATAGTGGCAAGATCATAGCTCATTGCAAGC
TCAAGTGATCCTCCTGACTCAGCCTCCCAAGTAGCTAGGACTGCAGGCACCATGTCACTATGCCCCGACTAATTTT
TAATTTTTAATTTTTTGTCAAGACAAGGTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCCTGGCCTCAA

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FIGURE 667

MAAFTKLSIEPAFTPGPNIELQKSDCCSCQEKWVGYRCNCYFISSEQKTWNESRHLCASQKSSLLQLQNTDELD
FMSSSQQFYWIGLSYSEEHTAWLWENGSAQSQYLFPSFETFNKNCIAYNPNGNALDESCEDKNRYICKQQLI

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FIGURE 668

GACCGAAGCAAGAGCTGGTTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGGAGACACTGGGCCCCGCATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCTCACAGCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCCACCGTGGTGACAGGCCTGGGACCAGACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGCCGGGAGGCCGCCACCTCAGCCCATGGTGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGCAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCTGGGGGTCTCTCTTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCCATGGAGGAAGTGGAGCGGC
AGGTCTCCAGACCCCCGAGGTGCTGGAAGCTGTGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCCTCTGACAGTGTCCCCAGCCTGCAAAACATGGGTCTTCTGCTGGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCAGCTGCAGGCCCAAAGGAAGAGCTTCAGAGCCTGATGCACAGCCCAAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGGCTCTGCAGCAGGGCGAAGCCTCCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGCTCCAGGGGCTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGGTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGGAGCAGGAGCCAGAACTCAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCAGCGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTTGAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGCCACAGATTGGCCCAGAACTGCAGGGCCTGGAGAACTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCCTCCAGAATTCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCCGAAGGCTGAGCACTGGAAACATAAGAAGGAAGAATCTGGCCGGGAAGGAAGAAGAACTGGG
GAGGTGAGGAGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTCCGGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGCTGCTCAGGTGTGGACGAGTGTCCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGCAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCCTCCGCT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGAAG
TAGATGACTTTGAGGACTTCTCTTTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCAAGAGCTGCGGGGCCAGGGAGGGGCACAGCCATAGCCACCACCACCACCACCGGG
GCTGACACCCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTGTTTGGTGTCTCAGATATCTTTACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAAGGCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAAATGCATGCAAAATACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTGTCACTGTGAAGGGGAGATGGGAGAGGAGCCTGTTTGGGGTGGGGTC
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCATAGTGGGCCCTTG
ACCCACATGCTGACCGGTGCCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGGCCAGCAGGAGACTTACCCTGG
GGTTTTGTTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTACCCTGCTTCTC
CCACGGCTTCACCTCCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTGACGTATGATGCTAGGTG
GTTTCTAAGCACAGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCCAGGCACTGGTACTTGGCCC
CTTGTTCTGTATCCCCCTTGGCCCTTGCCCTTCCAACAAACCCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTTGTCTACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTTTCTTATCCTCAAAAAAG
CGCATGGAAGGGCTGGGGAAGTGATTAAATAAAGCAACGCAAGAAAAA

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FIGURE 669

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPQSGSILT
EETEVKGTLEGDVCGVEPPGPGD TVVQGD LQETT VVTGLGPD TDLEGQSPQSLPSTPKAAWIREEGRCSSDD
DTDVDMEGLRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVFPDSVPSLQNMGLLLDKLAKENQDIRLLQAQQAQKEELQSLM
HQP KGLEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
PELSFLKQKEQLEAEAQALRQELERQRRLLGSVQODLERSLQDASRGDPAHAGLAELGHRLAQKLOGLLENWGQDP
GVSANASKAWHQKSHFQNSREWSGKEKWWDGQDRKA EHWKHKKEESGRERKKKNWGGQEDREPAGRWKEGRPRVE
ESGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSDPLPSWAELLRPKYRAPQGC SGVDECARQEGE
TFFGT ELAPVRQQELASLLR TYLARLPWAGLTKELPLSPAFFGEDGIFRHDRLRFRDFVDALEDSLEEVAVQQT
GDDDEVDDFEDFIFSHFFGDKALKKRSGKKDKHSQS PRAAGPREGHSHSHHHHHRG

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FIGURE 670

AAGCCACCCAGCCTATGCATCCGCTCCTCAATCCTCTCCTGTTGGCACTGGGCCTCATGGCGCTTTTGTGACCA
CGGTCATTGCTCTCACTTGCCCTTGGCGGCTTTGCCTCCCCAGGCCCTGTGCCTCCCTCTACAGCCCTCAGGGAGC
TCATTGAGGAGCTGGTCAACATCACCCAGAACCAGAAGGCTCCGCTCTGCAATGGCAGCATGGTATGGAGCATCA
ACCTGACAGCTGGCATGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGCTGCAGTGCCATCGAGAAGA
CCCAGAGGATGCTGAGCGGATTCTGCCCGCACAAAGGCTCAGCTGGGCAGTTTTCCAGCTTGATGTCGAGACA
CCAAAATCGAGGTGGCCAGTTTTGTAAAGGACCTGCTCTTACATTTAAAGAACTTTTTCGCGAGGGACGGTTCA
ACTGAAACTTCGAAAGCATCATTATTTGCAGAGACAGGACCTGACTATTGAAGTTGCAGATTCATTTTCTTTCT
GATGTCAAAAATGTCTTGGGTAGGCGGGAAGGAGGGTTAGGGAGGGGTAAAATTCCTTAGCTTAGACCTCAGCCT
GTGCTGCCCGTCTTCAGCCTAGCCGACCTCAGCCTTCCCCTTGCCAGGGCTCAGCCTGGTGGGCCTCCTCTGTC
CAGGGCCCTGAGCTCGGTGGACCCAGGGATGACATGTCCCTACACCCCTCCCCTGCCCTAGAGCACACTGTAGCA
TTACAGTGGGTGCCCCCTTGCCAGACATGTGGTGGGACAGGGACCCACTTCACACACAGGCAACTGAGGCAGAC
AGCAGCTCAGGCACACTTCTTCTGGTCTTATTTATTATTGTGTGTTATTTAAATGAGTGTGTTTGTACCGTTG
GGGATTGGGGAAGACTGTGGCTGCTGGCACTTGAGCCAAGGGTTCAGAGACTCAGGGCCCCAGCACTAAAGCAG
TGGACCCCAAGGAGTCCCTGGTAATAAGTACTGTGTACAGAATTCTGCTACCTCACTGGGGTCTTGGGGCCTCGGA
GCCTCATCCGAGGCAGGGTCAGGAGAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
AACGAGTAATTTATTGTTTTCTCGTATTTAAATATTTAAATATGTTAGCAAAGAGTTAATATATAGAAGGGTAC
CTTGAACACTGGGGGAGGGGACATTGAACAAGTTGTTTCATTGACTATCAAACCTGAAGCCAGAAATAAAGTTGGT
GACAGATA

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FIGURE 671

MALLTTVIALTCLGGFASPGVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESLINVSG
CSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLHLKKLFREGRFN

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FIGURE 672

ATCACTCTCTTTAATCACTACTCACATTAACTCAACTCCTGCCACAATGTACAGGATGCAACTCCTGTCTTGCA
TTGCACTAATTCTTGCACTTGTACAAACAGTGCACCTACTTCAAGTTCGACAAAGAAAACAAAGAAAACACAGC
TACAACTGGAGCATTCTACTGCTGGATTACAGATGATTTTGAATGGAATTAATAATTACAAGAATCCCAAACCTCA
CCAGGATGCTCACATTTAAGTTTTACATGCCCAAGAAGGCCACAGAAGTGAACAGCTTCAGTGTCTAGAAGAAG
AACTCAAACCTCTGGAGGAAGTGTGAATTTAGCTCAAAGCAAAAACCTTCACTTAAGACCCAGGGACTTAATCA
GCAATATCAACGTAATAGTTCTGGAAGTAAAGGGATCTGAAACAACATTCATGTGTGAATATGCAGATGAGACAG
CAACCATTGTAGAATTTCTGAACAGATGGATTACCTTTTGTCAAAGCATCATCTCAACACTAACTTGATAATTAA
GTGCTTCCCACTTAAACATATCAGGCCTTCTATTTATTTATTTAAATATTTAAATTTTATATTTATTGTTGAAT
GTATGGTTGCTACCTATTGTAAGTATTATTTCTTAATCTTAAACTATAAATATGGATCTTTTATGATTCTTTTG
TAAGCCCTAGGGGCTCTAAATGGTTTACCTTATTTATCCCAAAATATTTATTATTATGTTGAATGTTAAATAT
AGTATCTATGTAGATTGGTTAGTAAACTATTTAATAAATTTGATAAATATAAAAAAAAAAAAAACAAAAAAAAAA

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FIGURE 673

MYRMQLLSICIALILALVTNSAPTSSSTKKTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATE
LKQLQCLEEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQS
IISTLT

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FIGURE 674

GATCCAAACATGAGCCGCCTGCCCGTCCTGCTCCTGCTCCAACCTCCTGGTCCGCCCCGGACTCCAAGCTCCCATG
ACCCAGACAACGTCCTTGAAGACAAGCTGGGTAACTGCTCTAACATGATCGATGAAATTATAACACACTTAAAG
CAGCCACCTTTGCCTTTGCTGGACTTCAACAACCTCAATGGGGAAGACCAAGACATTCTGATGGAAAATAACCTT
CGAAGGCCAAACCTGGAGGCATTCAACAGGGCTGTCAAGAGTTTACAGAACGCATCAGCAATTGAGAGCATTCTT
AAAAATCTCCTGCCATGTCTGCCCCTGCCACGGCCGCACCCACGCGACATCCAATCCATATCAAGGACGGTGAC
TGGAATGAATTCCGGAGGAACTGACGTTCTATCTGAAAACCTTGAGAATGCGCAGGCTCAACAGACGACTTG
AGCCTCGCGATCTTTTAGTCCAACGTCCAGCTCGTTCTCTGGGCCTTCTCACCACAGCGCCTCGGGACATCAAAA
ACAGCAGAACTTCTGAAACCTCTGGGTCACTCTCACACATTCCAGGACCAGAAGCATTTACCTTTTCCTGCGG
CATCAGATGAATTGTTAATTATCTAATTTCTGAAATGTGCAGCTCCCATTGGCCTTGTCGGTTGTGTTCTC

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FIGURE 675

MSRLPVLLLLQLLVVRPGLQAPMTQTTSKTSWVNCSNMIDEIITHLKQFPPLPLDFNNLNGEDQDILMENNLRP
NLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHKDGDWNEFRKLTFLYKTLENAQAQQTLSLA
IF

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FIGURE 676

GAGGTTGAAGGACCCAGGCGTGTCAGCCCTGCTCCAGAGACCTTGGGCATGGAGGAGAGTGTCGTACGGCCCTCA
GTGTTTGTGGTGGATGGACAGACCGACATCCCATTCACGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGT
GTGGCCCGGGTGGGTCTGGGTCTCTTGCTGTTGCTGATGGGGGCTGGGCTGGCCGTCCAAGGCTGGTTCCTCCTG
CAGCTGCACTGGCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCTGATA
CAAGAGCGAAGGTCTCAGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTCCAGCTTGACCGGCAGCGGG
GGGCGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCCTGAGGGGCTCAGCTACCACGATGGGGCCCTTG
GTCACCAAAGCTGGCTACTACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCGCTGGGCCTGGCC
AGCACCATACCCACGGCCTCTACAAGCGCACACCCGCTACCCGAGGAGCTGGAGCTGTTGGTCAGCCAGCAG
TCACCCTGCGGACGGGCCACCAGCAGCTCCCGGCTCTGGTGGGACAGCAGCTTCCTGGGTGGTGTGGTACACCTG
GAGGCTGGGAGGAGGTGGTCGTCCGTGTGCTGGATGAACGCCTGGTTCGACTGCGTGATGGTACCCGGTCTTAC
TTCGGGGCTTTTCATGGTGTGAAGGAAGGAGCGTGGTGCATTGGACATGGGTCTGACACGTGGAGAACTCAGAGGG
TGCCCTCAGGGGAAAGAAAACCTACGAAGCAGAGGCTGGGCGTGGTGGCTCTCGCCTGTAATCCCAGCACTTTGGG
AGGCCAAGGCAGGCGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAACCCCATCTCTA
CTAAAAATACAAAAATTAGCCGGACGTGGTGGTGCCTGCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGATA
ATTTTGCTTAAACCCGGGAGGCGGAGGTGTCAGTGAGCCGAGATCACACCACTGCACTCCAACCTGGGAAACGCA
GTGAGACTGTGCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 677

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLLLLLLMCAGLAVQGWFLQLHWRLGEMVTRLPDG
PAGSWEQLIQERRSHEVNPA AHLTGANSSLTGSGGPLLWETQLGLAFLRGLSYHDGALVVTKAGYYYIYSKVQLG
GVGCPLGLASTITHGLYKRTPRYPEELELLVSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEEVVVRVLDERLV
RLRDGTRSYFGAFMV

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FIGURE 678A

GGCACGAGGCTCGCCGCGGACTCAAGATGCGCGCGTGTGGACGTGTACGGAGGATGTTCCGCTTGTGGCGGGCGC
TGCATCTGCTGCTGCTATTTCGCGGCCGGGGGCGAGAACTCCCCGCCAGGGCGTCCCACAGCCAGGGCCAGGGTC
CCGGGGCCAACTTTGTGTCTTCGTAGGGCAGGCGGAGGCGGCGGCCGGCGGGTCAGCAGCTGCCCCAGCTGC
CTCAGTCATCGCAGCTTCAGCAGCAACAGCAGCAGCAGCAACAGCAACAGCAGCCTCAGCCGCCGAGCCGCCCTT
TCCCGCGGGTGGGCCTCCGCGGCGGGGAGGAGCGGGGGCTGGTGGGGGCTGGAAGCTGGCGGAGGAAGAGTCCT
GCAGGGAGGACGTGACCCGCGTGTGCCCTAAGCACACCTGGAGCAACAACCTGGCGGTGCTCGAGTGCCTGCAGG
ATGTGAGGGAGCCTGAAAATGAAATTTCTTCAGACTGCAATCATTTGTTGTGGAATTATAAGCTGAACCTAACTA
CAGATCCCAAATTTGAATCTGTGGCCAGAGAGGTTTGCAAATCTACTATAACAGAGATTAAAGAAATGTGCTGATG
AACCAGTTGGAAAAGGTTACATGGTTTCTGCTTAGTGGATCACCGAGGCAACATCACTGAGTATCAGTGTACC
AGTACATTACCAAGATGACGGCCATCATTTTTAGTGATTACCGTTTAATCTGTGGCTTCATGGATGACTGCAAAA
ATGACATCAACATTCTGAAATGTGGCAGTATTCGGCTTGGAGAAAAGGATGCACATTACAAGGTGAGGTGGTAT
CATGCTTGGAGAAAGGCCTGGTGAAAGAAGCAGAAGAAAGAGAACCCAAGATTCAAGTTTCTGAATCTGCAAGA
AAGCCATTCTCCGGTGGCTGAGCTGTCTCGGATGACTTTCACTTAGACCGGCATTTATATTTGCTTGCCGAG
ATGATCGGGAGCGTTTTTGTGAAAATACACAAGCTGGTGAGGGCAGAGTGTATAAGTGCCTCTTTAACCATAAAT
TTGAAGAATCCATGAGTGAAAGTGTGAGAAGCACTTACAACCCGCCAAAAGCTGATTGCCAGGATTATAAAG
TCAGTTATTCTATGGCCAAATCCTGTAAAAGTGACTTGAAGAAATACCGGTGCAATGTGGAACCTTCCGCGAT
CGCGTGAAGCCAGGCTCTCCTACTTGTAAATGTGCCTGGAGTCAGCTGTACACAGAGGGCGACAAGTCAGCAGTG
AGTGCCAGGGGAGATGCTGGATTACCGACGCATGTTGATGGAAGACTTTTCTGAGCCCTGAGATCATCCTAA
GCTGTGCGGGGAGATTGAACACCATTGTTCCGATTACATCGAAAAGGACGGACCCTACACTGTCTGATGAAGG
TAGTTCGAGGGGAGAAGGGGAACCTTGAATGAAGTCCAGCAGGCGCTTCAAACACTGATTGAGGAGACTGACC
CTGGTGCAGATTACCGCATTGATCGAGCTTTGAATGAAGCTTGTGAATCTGTAATCCAGACAGCTGCAACATA
TAAGATCTGGAGACCCAATGATCTCGTCGTGCTGATGGAACATTTATACACAGAGAAGATGGTAGAAGACTGTG
AACACCGTCTCTTAGAGCTGCAGTATTTTCATCTCCCGGGATTGGAAGCTGGACCCTGTCTGTACCGCAAGTGCC
AGGGAGACGCTTCTCGTCTTTGCCACACCCACGGTTGGAATGAGACCAGTGAATTTATGCCTCAGGGAGCTGTGT
TCTCTTGTTTATACAGACACGCTACCGCACTGAAGAACAGGGAAGGAGGCTCTCACGGGAGTGCCGAGCTGAAG
TCCAAAGGATCTACACCAGCGTGCCATGGATGTCAAGCTGGATCCTGCCCTCCAGGATAAGTGCTGATTGATC
TGGGAAAATGGTGCAGTGAGAAAACAGAGACTGGACAGGAGCTGGAGTGCCTTCAGGACCATCTGGATGACTTGG
TGGTGGAGTGTAGAGATATAGTTGGCAACCTCACTGAGTTAGAAATCAGAGGATATCCAAATAGAAGCCTTGCTGA
TGAGAGCCTGTGAGCCATAATTACAGACATTCTGCCACGATGCGGATAACCAGATAGACTCTGGGGACCTGATGG
AGTGTCTGATACAGAACAAACACCAGAAGGACATGAACGAGAAGTGTGCCATCGGAGTTACCCACTTCCAGCTGG
TGCAGATGAAGGATTTTCGGTTTTCTTACAAGTTAAAATGGCCTGCAAGGAGGACGTGTTGAAGCTTTGCCCAA
ACATAAAAAAGAAGGTGGACGTGGTGATCTGCCTGAGCAGCAGCCGTGCGCAATGACACTCTGCAGGAAGCCAAGG
AGCACAGGGTGTCCCTGAAGTGCCGAGGCAGCTCCGTGTGGAGGAGCTGGAGATGACGGAGGACATCCGCTTGG
AGCCAGATCTATACGAAGCCTGCAAGAGTGACATCAAAAATCTGTCTCCGCTGTGCAATATGGCAACGCTCAGA
TTATCGAATGTCTGAAAGAAAACAAGAAGCAGCTAAGCACCCGCTGCCACCAAAAAGTATTTAAGCTGCAGGAGA
CAGAGATGATGGACCCAGAGCTAGACTACACCCTCATGAGGGTCTGCAAGCAGATGATAAAGAGGTTCTGTCCGG
AAGCAGATTCTAAAACCATGTTGCAGTGCTTGAAGCAAAATAAAAACAGTGAATTGATGGATCCCAAATGCAAAC
AGATGATAACCAAGCGCCAGATCACCCAGAACACAGATTACCGCTTAAACCCCATGTTAAGAAAAGCCTGTAAAG
CTGACATTCTAAATTCTGTACGGTATCTGACTAAGGCCAAGGATGATTGAGAATTAGAAGGACAAGTCATCT
CTTGCCCTGAAGCTGAGATATGCTGACCAGCGCTGTCTTCAGACTGTGAAGACCAGATCCGAATCATTATCCAGG
AGTCCGCCCTGGACTACCGCCTGGATCCTCAGCTCCAGCTGCCTGCTCAGACGAGATCTCCAGTCTATGTGCTG
AAGAAGCAGCAGCCCAAGAGCAGACAGGTGAGGTGAGGAGTGCTCAAGGTCAACCTGCTCAAGATCAAAAACAG
AATTGTGTAAAAGGAAGTGCTAAACATGCTGAAGGAAAGCAAAGCAGACATCTTGTGACCCGGTACTTCATA
CTGCTTGTGCCCTGGACATTAAACACCACTGCGCAGCACTCACCCCTGGCCGCGGGCGTCAAATGTCTGTCTCA
TGGAGCACTGGAGGATAAGCGGGTGAGGTTACAGCCCGAGTGCAAAAAGCGCCTCAATGACCGGATTGAGATGT
GGAGTTACGCAGCAAAGGTGGCCCCAGCAGATGGCTTCTCTGATCTTGCCATGCAAGTAATGACGTCTCCATCTA
AGAACTACATTCTCTGTGATCAGTGGGAGCATGTGATATTGTTCCTGATTGGCCTGATGTGTGGACGGATCA
CCAAGCGAGTGACACGAGAGCTCAAGGACAGGTAGAGCCACCTTGACCACCAAGGAACCTACCTATCCAGTGCC

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FIGURE 678B

AGTTTGTACAGCCCTCTTGTATAGCATCCCCACTCACCTCGCTCTTCTCAGAAGTGACACCAACCCCGTGTTAGA
GCATTAGCAGATGTCCACTGCGTTGTCCCATCCAGCCTCCACTCGTGTCCATGGTGTCCCTCCTCCTCACCCT
GCAGCAGCAGCAGCTGGTCGCTGGGGTTACTGCCTTTGTTGGCAAACCTGGGTTTACCTGCCTGTAGACAAGTC
TCTCTCATACCAACAGAACTTCCGGTACTTCAGAACCAACTCACCTGACCTGCAACTCAAAGGCTTTTTTAAGA
AAACCACCA

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FIGURE 679

MAACGRVRRMFRLSAAHLLLLFAAGGRNSPARASHSQGQPGANFVSFVGQAGGGGPAGQQLPQLPQSSQLQQQ
QQQQQQQQQPQPFPFPFAGGPPRRGGAGAGGGWKLAEEESCREDVTRVCPKHTWSNNLAVLECLQDVREPENEI
SSDCNHLWNKYKLNLTDPKFESVAREVCKSTITEIKECADEPVGKGYMVSLVDHRGNITEYQCHQYITKMTAI
IFSDYRLICGFMDDCKNDINILKCGSIRLGEKDAHSQGEVVSCLVKGLVKEAEEREPKIQVSELCKKAILRVAEL
SSDDFHLDRHLYFACRDDRERFCENTQAGEGRVYKCLFNHKEESMSEKCREALTTRQKLIADYKVSYSKAKSC
KSDLKKYRCNVENLPRSREARLSYLLMCLESVHRGRQVSSECQGEMLDYRRMLMEDFSLSPEIILSCRGEIEHH
CSGLHRKGRITLHCLMKVVRGEKGNLGMNCQALQTLIQETDGPADYRIDRALNEACESVIQTACKHIRSGDPMIS
SCLMEHLYTEKMVEDCEHRLLELQYFISRDWKLDPVLYRKQGDASRLCHTHGWNETSEFMPQGAVFSCLYRHAY
RTEEQGRRLSRECRAEVQRILHQRAMDVKLDPALQDKCLIDLKWCSEKTETGQELECLQDHLDDLVECRDIVG
NLTELESEDIQIEALLMRACEPIIQTFCHDADNQIDSGDLMECLIQNKHQKDMNEKCAIGVTHFQLVQMKDFRFS
YKFKMACKEDVLKLCPNIKKKVDVVICLSTTVRNDTLQEAKEHRVSLKCRRLRVEELEMTEDIRLEPDLYEACK
SDIKNFCSAVQYGNAQIIIECLKENKKQLSTRCHQKVFKLQETEMMDPELDYTLMRVCKQMIKRFCEADSKTMLQ
CLKQNKNSSELMDPKCKQMITKRQITQNTDYRLNPMLRKACKADIPKFCHGILTKAKDDSELEGQVISCLKLRYAD
QRLSSDCEDQIRIIQESALDYRLDPQLQLHCSDEISSLCAEEAAAQEQTGQVEECLKVNLLKIKTELCKKEVLN
MLKESKADIFVDPVLHTACALDIKHHCAALTPGRGRQMSCLMEALEDKRVRLQPECKKRLNDRIEMWSYAAKVAP
ADGFSDLAMQVMTSPSKNYILSVISGSICILFLIGLMCGRITKRVTRELKDR

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FIGURE 680

TCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAAGCGTTCGCGGTGCGGTAGGAAGCTGAAGT
CTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGGTGAAGAAAAGGCAGAAGCGGAAGCATCTG
AAGACACAAAGGCCAGTCCTATGGGAGAGGGAGCTGCAGGGAGCGGGAGCTGGACATCCAGGGCCCATGAGTG
GGGAGCAGCCCCACGCCCTGGAAGCTGAGGGAGGGCTCATCTCCCTGTATGGGGGGCAGAAGGGATACCTGCCC
CTACTTGCTGGATTGGGACTGACCCTGGCAGCCCTCTAGAGCCCACCAGCCACAGGCCAGTGATGCCAACAGAG
AGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCCTGCCACCATGGGGTCTGGAGACCTTCTGC
TCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTCCTCCGAGGAGTTCCTCAGACTCTGAGCCTTCCCA
GAACAACAATATTTGCTCAGGACATGATGCTGATACCGAAGATGATCCATCCCTAGCAGATTGCCCCAGGCAC
TGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTGCCTGTCACAGTGGAAGTCCGTGCTGAGCCAGGTT
CCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCTCCACGGGCAGCAGTCTCCAGGGTACCAGGAGAGGG
CGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCCTCCTCCCTGGAGCCGGTCTGTCCTCCAGGAACCTTCTCTG
TGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTTCTCTGGGGGTGATGCTTCTGGGGTAGGCA
GGAGACGCCCTCTCCTTCCAGGCTGAGTACTGGGCCTGTGTGCTGCCAGATTCCCTGCCTCCATCACCAGCCGCC
ACTCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTTGACTATACTTACCCACTGAGGCCCGGGCCTC
AGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCTGTCTGTCAGGACTCCGGGGTAGACCTGGATAGCT
TCTCTGTCTCTCCAGCAAGCACCTCAAATCACCTACTAATGTCTCCCCAACTGCCACCAGCAGAGGCCACTG
CCCTGCCATTTTCTGGGGCCAGAGAGCCAAGCCTTAAGCAGTGGCCCTCCAGAGTACCCAGAAACAGGGTGGCA
TGGGCTTGGCATCTTGGAGCCAACCTTGATCTACCCCCAGAGCCCCAGGCAGTAGGGATGCTCGTTGGGAGCGCA
GAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAAGCACCTTGATATGGGCTCTCCCCAGCTAA
GGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAAGAGGACCAGCCAGAGTGCCCCGGCGCCCTA
CCTGCACAGAGTCTAGGTGGAATCAGAAGAGGAAGTGAAAGTGATGACGAGTATCTTGCCCTCCCCGCTCGGC
TGACACAGACATTTTGCTGTCAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCACG
GGACTGCAGCCAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTACCGGCAATTTAAGAAAGATATAG
ATGAACATCAGTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCAAGTGCCTGTTGGAGAACACCC
CAGTTTTAGAGGATGTCCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATG
ACTCTATCTTGGCCTCTCTGGACATGCTGGCTGGCTGCACCCCTATCCCTGACAAAAAGCCCATGGCGGCAATGG
AGCACCCATGTGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGT
GAGAAAAAAACCTTCAAGAAGTCCTTGCAAGAGCCATTCAACACTGAAGTCAAGGGGAAACCTTCAATATACT
AGCTTTAAATGCCTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTATTACAAATGAATCCTTCCAAAC
TAAAAA

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FIGURE 681

MALGEEKAEAEASEDTKAQSYGRGSCRERELDIPGPMSEQPPRLEAEGGLISPVWGAEGIPAPTCWIGTDPGSP
SRAHQ PQASDANREPVAERSEPALSGLP PATMGSGDLLSGESQVEKTKLSSSEFPQTLSLPRTTTICSGHDAD
TEDDPSLADLPQALDLSQQPHSSGLSCLSQWKS VLSPGSAAQ PSSCSISASSTGSSSLQGHQERAEPRGGS LAKVS
SSLEPVVPQEPSSVVG LGPRPQWSPQPVFSGGDASGLGRRRLSFQAEYWACVLPDSLPPSPDRHSPLWNP NKEYE
DLLDYTYPLRPGPQLPKHLSRVPADPVLQDSGVDLDSF SVSPASTLKSP TNVSPNCP PAEATALPFSGPREPSL
KQWPSRVPQKQGGMGLASWSQLASTPRAPGSRDARWERREPALRGAKDRLTIGKHLDMGSPQLRTRDRGWPSRP
EREKRTSQSARRPTCTESRWKSEEEVESDDEYLALPARLTQTFCCQLEELICWLYNVADVTDHGTAARSNLTSLK
SSLQLYRQFKKDIDEHQSLTESVLQKGEILLQCLLENTPVLEDVLGRIAKQSGELES HADRLYDSILASLDMLAG
CTLIPDKKPMAMEHPCEGV

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FIGURE 682

GGGCAACGGAGGGGAAATAAAAGGGAACGGCTCCGAATCTGCCCCAGCGGCCGCTGCGAGACCTCGGCGCCGACA
TCGCGACAGCGAAGCGCTTTGCACGCCAGGAAGGTCCCCTCTATGTGCTGCTGAGCCGGTCTGGACGCGACGAG
CCCGCCCTCGGTCTTTCGGAGCAGAATTCGCAAAAACGGAAGGACTGGAAATGCGCAGACCATATGATGGCAATGAA
CCACGGGCGCTTCCCCGACGGCACCAATGGGCTGCACCATCACCTGCCACCGCATGGGCATGGGGCAGTTCCC
GAGCCCCATCACACCAGCAGCAGCAGCCCCAGCACGCCTTCAACGCCCTAATGGGCGAGCACATACACTACGG
CGCGGGCAACATGAATGCCACGAGCGGCATCAGGCATGCGATGGGGCCGGGACTGTGAACGGAGGGCACCCCCC
GAGCGCGCTGGCCCCCGGGCCAGGTTTAACTTCCCAGTTCATGGGTCCCCCGGTGGCCAGCCAGGGAGGCTC
CCTGCCGGCCAGCATGCAGCTGCAGAAGCTCAACAACAGTATTTCAACCATCACCCCTACCCCCACAACCACTA
CATGCCGATTGTCACCTGCTGCAGGCCACCAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCAA
GCACAGCGGCGGCAGCAGCACCCCCGGCGGCTCGGGCGGCAGCAGCACCCCGGCGGCTCTGGCAGCAGCTCGGG
CGGCGGCGCGGGCAGCAGCAACAGCGGCGGCGGCAGCGGCAGCGGCAACATGCCCGCTCCGTGGCCACGTCCC
CGCTGCAATGCTGCCGCCAATGTCATAGACACTGATTTTCATCGACGAGGAAGTTCTTATGTCCTTGGTGATAGA
AATGGGTTTGGACCGCATCAAGGAGCTGCCCCAACTCTGGCTGGGGCAAAACGAGTTTGATTTTATGACGGAATT
CGTGTGCAACAGCAGCCCAGCAGAGTGAGCTGTGACTCGATCGAAACCCCGGCGAAAGAAATCAAACCCCAA
CTTCTTCGGCGTGAATTAAGAAACATTCCCTTAGACACAGTATCTCACTTTTCAGATCTTGAAAGGTTTGAGA
ACTTGAAACAAAGTAACTATAAACTTGTACAAATGGTTTTAAAAAAATTGCTGCCACTTTTTTTCCTGTTT
TTGTTTCGTTTTTGTAGCCTTGACATTCACCCACCTCCCTTATGTAGTTGAAATATCTAGCTAAGTTGGTCTTTT
TCGTTGTTTGTCTTTTACTCCTTTCCCTCACTTTCTCCAGTGCTCAACTGTTAGATATTAATCTTGGCAAACGCT
TAATCTTGTTGATTGTTGTAGATGGTTTCAAATGACTGAACTGCATTGAGATTTACGAGTGAAAGGAAAAATTGCA
TTAGTTGGTTGCATGAACTTCGAAGGGCAGATATTACTGCACAACTGCCATCTCGCTTCATTTTTTAACTATG
CATTTGAGTACAGACTAATTTTTAAATATGCTAACTGGAAGATTAAACAGATGTGGGCCAACTGTTCTGGAT
TAATAGGGTGTGGAATGTCGTCAGTGGCAACATTTACAGATTTTTATTTTGTCTTCAACATTTTTGA
CACTGTGCTAATAGTTATATTAGTACATGAAAAGATACTACTGTGTTGAAAGCTTTTAGGAAATTTTGACAGT
ATTTTGTACAAAACATTTTTTTGAAAAATACTTGTTAATTTATTTCTATTTTAATTTGCCAATGTCATAAAAA
GTTAAGAAAAA

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FIGURE 683

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEHIHYGAGNMNATSGIRHAMGP
GTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHYPHNHYMPDLHPAAGHQMNCTN
QHFRDCNPKHSGGSSTPGSGGSSTPGSGSSSSGGGAGSSNSGGSGSGGNMPASVAHVPAAMLPPNVIDTDFIDE
EVLMSLVIEMGLDRIKELPELWLGQNEFDFTDFVCKQQPSRVSC

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FIGURE 684

ACACGGACCAAGGAGTCTAACACGTGCGGAGTTCGGGGGCTCGCACGAAAGCCGCCGTGGCGCAATGAAGGTGAA
GGCCGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCGTCT
CGCCCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGACCCGAAAGATGCTGAACATATGCTGGGCAG
GGCGAAGCCAGAGGAACTCTGGTGGAGGTCCGTAGCGGTCTGACGTGCAATCGGTGCTCCGACCTGGGTATA
GGGGCGGGCTCCAGGCGAGGCGGTGACGCTCCTGAAAACCTTGCGCGCGCTCGCGCCACTGCGCCCGGAGCGA
TGAAGATGGTCGCGCCCTGGACGCGGTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCA
TCCTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGG
ATCAGTATAACTTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTCATGGATGATGCCAACATGTGCATTGCCA
TTGCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGA
TCATCCCATTCTTCTGTTACCAGATCTTTGACTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTATC
CAAATCCATTACAGGAATACATACGGCAACTGCCTCCTAATTTTCCCTACAGAGATGATGTCATGTCAGTGAATC
CTACCTGTTTGGTCCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAGGGTACTTGATTAGCTGTG
TTTGAACCTGCTACCGATACATCAATGGTAGGAACCTCTCTGATGTCCTGGTTTATGTTACCAGCAATGACACTA
CGGTGCTGCTACCCCGTATGATGATGCCACTGTGAATGGTGTGCCAAGGAGCCACCGCCACCTTACGTGCTG
CCTAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTTATTT
CACTTTTGCCATGAGCCTCTCTGAGCTTGTGTTGCTGAAATGCTACTTTTTAAATTTAGATGTTAGATTGAA
AACTGTAGTTTTCAACATATGCTTTGCTAGAACACTGTGATAGATTAAGTGTAGAATTCTTCTGTACGATTGGG
GATATAATGGGCTTCACTAACCTTCCCTAGGCATTGAACTTCCCCAAATCTGATGGACCTAGAAGTCTGCTTT
TGTACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTCTGTTCCCTCTCTTTTGAAAATGTAAATAAAACCAA
AATAGACAACCTTTTTCTTCAGCCATTCCAGCATAGAGAACAAACCTTATGGAAACAGGAATGTCAATTGTGTAA
TCATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCACAACATCCTTTATGAC
TGAAGTTCAATGACAGTTTGTGTTTGGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCA
CCAGGCCGTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTGTGTCCAGGGACATGGGGTGACATGCC
TCGTATGTGTTAGAGGGTGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCCCTCTTCTCCTGGATTAC
ATCCCCACCCAGGGCCCGCTTTTACTAAGTGTTCTGCCCTAGATTGGTTCAAGGAGGTCACTCAACTGACTTTAT
CAAGTGAATTTGGGATATATTTGATATACTTCTGCCTAACAACATGGAAAAGGGTTTTCTTTTCCCTGCAAGCTA
CATCCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAATGTAAACATTTTCAGAAAAATGAGGATT
GCCTTCTTGTATGCGCTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTCATATGTTACAAAGT
CAGCAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTGCAATTAACAAAGGTTTGCCCA
CAAAAAAAAAA

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FIGURE 685

MVNYAWAGRSQRKLWWRSVAVLTCKSVVRPGYRGGLQARRSTLLKTCARARATAPGAMKMVAPWTRFYNSCCLC
CHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICAMATYGA
YKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTF
KGYLISCYWNCRYINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA

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FIGURE 686

TCCACGGTGGCATCCATGATGCATCGTCAGGAGACTGTGGAGTGTTTGCGCAAGTTCAATGCCCGGAGAAAAGTCTG
AAGGGTGCCATCCTCACGACCATGCTTGCTCCAGGAAGTTCTCAGCTGCCAAAAACCTATTGAACAAGAAGTCG
GATGGCGGTGTCAAGCCAAGAAACAACCTACAAGCTATAGAATTTAACAAGCTTTACTTGCTATGTACACAAACC
AGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTCCCGAGCATCTCTTACCTGTGTTAATCC
AAGCTGCCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGCTGCTTCAGGAATTTTCAGATCAGCATC
CAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAGTTGAAAATTTCTCAAGGTAATATTTCTAAAGCATGTT
TAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTATCTGCATTAGTTACCATGTATAGCCATG
AAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGTGGTATCAAAACCATCAGCCAAAATCTC
CTNCTCATTGTCTTGATAAGAGAAGCTGCAAACCTCAAACCTCAAATATGGGCGGAAGAAGGAGGCAATTAGTG
ACCTACAACAGCTGTGGAAACAAAATCCAAAAGATATTACACCCCTGGCACAGCTTATTTCTGCTTACTCACTTG
TAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAGATAGTATGTCACTAAAAGTAGATGTTG
AGGCTCTTGAAAATTCTGCTGGTGCTACATACATTGGAAGAAGGGTGGAAGTTACTGGAGATAGTCAACCAA
AGGAACAAGGACAGGGAGATTGAAAAAGTAGCAAAAAAAAAAAAAAAAAAACTTAAAGCTATCGATTCTGG

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FIGURE 687

MYTNQAEQCRKISASLQSQSPEHLLPVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGN
SKACLILRSIEELKHKPGMVSAVLTMYSHEDIDSAIEVFTQAIQWYQNHQPKSPXHLSLIREAANFKLYGRKK
EAIIDLQQLWKQNPDKIHTLAQLISAYSLVDPEKAKALSKHLPSSDSMSLKVDVEALENSAGATYIRKKGGKVTG
DSQPKEQGQDLKK

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FIGURE 688

GTCCCAACTCTTGGA CTCCATTTGCTATTCTCTTCTTTCTCCCCACACCTATCTGGTGGTGGTAGTGGGCGTTT
ATATTTGCGTTCCTTTTCATTCAATTTCTAAATCTCTTAAAAATTTGGGTGGGGGTATTGGGGAAGGCAGGAAA
GGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACATGGAGATGAAGAAGAAGATTAACTGGAGTTAAGG
AACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATAATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTG
AATGATACITTCAAAGAACTAGAATTTCTGAGTATGGCTAATGTGGAACCTAAGTTCGCTGGCCCGGCTTCCCAGC
TTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAATTTCTGGAGGCTTGAAGTCCTGGCAGAGAAATGT
CCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTT
AAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCACAACCTGGAAGATTATAGAGAAAGTATTTTTGAA
CTACTGCAGCAAATCACATACTTAGATGGATTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGAT
GATGAGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAG
GAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTCAAGATTGGGAGAGGGA
GAAGAGGAAGTGGGCCCTCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATGACTATGTTGAA
GAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACGAGATGCTGAAGACGAT
GGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATTCTCTAATGTTTCTGGGTGTGCAATAGAGTGATCAC
ATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAGATAATGTGTAACTTTTATAGGAAAAGTGTGGTTT
TACTATTTTTGCCTTATCATTCCAAATAAGAACTAGTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTTCA
TTGACTCCCATTTGTGAATTCCTAGCAATTTATTTAGACTTAATTTTTTAAATCAAGCTTACTGTATTAGTCA
TTTTTAGCCCATAAATTAACATGATCACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 689

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDFKELEFLSMANVELSSLARLP
SLNKLRLKLELSDNI
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKSLDLFNCEITNLEDYRESIFELLQ
QITYLDGFDQ
EDNEAPDSEEEDEDEDGDEDEDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGE
GEEVGLSYLMKEE
IQDEEDDDDYVEEGEEEEEEEGGLRGEKRRDAEDDGEEEDD

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FIGURE 690A

GGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGGACTGGAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGC
GCCCAGGGTCTGAGGCTGCAGCCCCAGTTTCGCCATTGTGAGCCGCCCGGGGAGTCCGCTAGCGCAGCCGTGC
CCCCGAGTCCCCGTCCGCGCAGCGATGGGGCACCTGCCACGGGGATACACGGCGCCCGCCCTCTGCCTCTG
CTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTC
TCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTAT
TTCTTCGAATTTGAGGAATTCAACAGCACTTTGCCCTCTCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTAT
TATATAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAAA
CCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTGTTGAAATACAT
TATCCAGAAAAATATAACGTTTTCACAAGAGTGAACATTAGCTACTGGGAAGGTAAAGACTTCCGGACAATGCTA
TATAAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTATAGTAATATCACCTTT
CAGCTGGTATCTGAGGCAACTTTTAATAAAGTACCTTGTGAGTACAGTGGTGTGAGTCACGAACCCAAACAG
CACAGAACTGCCCCCTTATCCACCTCAAAATATTTCCGTTCTGATCGTAACTTGAACAAAAACAACCTGGGAAGAA
CAGAGTGGCAATTTCCAGAGAATCCTTCATGAGATCAAGATACAATAGGAAAAGAAAACTCTTCCATTTT
ACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCTCCGTTGGCCTGATTTTAAAGCAGTGACTATGAA
ACTACGCTCAGCCATATTGGTGGGACAGTGCATCTGCAGCTCCTGAAAGTGAAGATGAATTTGTGACGCTACTT
CCCATGGAATACGAAAATAACAGTACACTCAGTGAGACAGAGAAGTCAACATCAGGCTCTTCTCCTTTTTCCCT
GTGCAATGATATTGACCTGGTTACCACCCAAACCACCCACTGCTTTTGATGGGTTCCATATCCATATTGAACGA
GAAGAGAACTTTACTGAATATTGATGGTGGATGAAGAAGCACATGAATTTGTTGAGAACTGAAGGAACCTGGG
AAATATAAGTTATCTGTGACAACCTTTAGTTCCTCAGGATCTTGTGAAACTCGAAAAAGTCACTCAGCAAAATCA
CTCAGCTTTTATATCAGTCTTCAGGAGAGTGGATTGAAGAAGTACCGAGAAGCCGAGCAGCTGAGTGTCCAC
GTTTTAAGCTCAACCACTGCCTTGATGTCCTGGACATCTTCCCAAGAGAACTACAACAGCACCATTGTGTCTGTG
GTGTCGCTGACCTGCCAGAAACAAAAGGAGAGCCAGAGGCTTGAAGAGCAGTACTGCACTCAGGTGAACCTCAAGC
AAACCTATTATTGAAATCTGGTTCTGTTGCCAGTACCAGGTTGTAATATACCTAAGGAAGGCCCTTTGATT
GGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAATGCTCTATCCTTTGGGT
CCTACGGCCGTGGTTCTGAGCTGGACCAGACCTTATTTAGCGGTGTTGAGAAAATACGTGGTTGAAATGTTTAT
TTCAACCCTGCTACAATGACATCAGAGTGGACCACCTACTATGAAATAGCAGCAACTGTTTCTTAAGTGCATCC
GTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCGGGTTACCATGGTGACGTGGGGAGATCCAGAA
TTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACAGCCCCAGTGGCTCCGGAAATCACTTCTGTGGAATAT
TTCAACAGTCTGTTATATATCAGTTGGACATATGGGGATGATAACAGGACTTGTCCCATTCTAGAATGCTTCAC
TGGATGGTGGTTGCAGAAGGAAAAAGAAAATTAAGAAGAGTGAACACGCAATGTCATGACTGCAATTTCTCAGC
TTGCCCTCCAGGCGACATCTATAACCTCTCAGTAACTGCTTGTACTGAAAGAGGAAGTAATACCTCCATGCTCCGC
CTTGTCAAGCTAGAACCAGCTCCACCCAAATCACTCTTCGCACTGAACAAAACCCAGACTTCAGTGACTTTGCTG
TGGGTGGAAGAGGAGTAGCTGATTTCTTTGAAGTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAAACCTT
CAGGAACCACTTGTGTTTTCTTCCCATGTGCTGACCATCTCCAGCCTTCTTCTGCCACTGCCTACAATTGTAGT
GTCACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAGCCGCTCAACAATGGTTACAGAGATGAAT
CCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTGGACTGTTGCTTGTACCTCATT
ATCTTAGGAAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTTGCACTCTTAGAG
AGGGATGGAAGCTTCCATACAACCTGGCGTAGGAGTATATTGCTTTCTTAACCCTGCTACCTCATGTCTTTGG
ACTGATTATCTTTTGGCATTATTAATCCTTGGAGTAAAAATGGTTTAAAGAAGAGGAACTGACAAACCCG
GTTCAACTGGATGACTTTGATGCCATATTAAGGATATGGCCAAAGACTCTGACTATAAATTTCTCTTCAGTTT
GAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGCAGATCTTCCACTGAATCGATGTAACAAACCGT
TACACAAACATCCTACCATATGACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTAC
ATCAATGCCAACTATATCCTGGATACAACCTACCCAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACC
AGAAATGACTTCTGGAAGATGGTCTGCAACAAAAGTCTCAGATTATTGTATGCTCACTCAGTGTAAATGAGAAA
AGGAGGGTGAAATGTGACCATTACTGGCCATTACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATG
ATTTAGAGGAAGAGCAGGACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTG
ATGCATTTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCCTGCAGTTT
GTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGGTCCCATGATCATTCACTGCAGTGTGGCTGGGACGG

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FIGURE 690B

ACAGGAACATTTCATTGCCCTGGACAGGCTCTTGCAGCACATTCGGGATCATGAGTTTGTGACATCTTAGGGCTG
GTGTCAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTATCCATCAGTGTGTG
CAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGATGTCATATACGAGAATGTTAGCAAGTCCTAG

TTCAGAAATCCGGAGCAGAGAGGACATGATGTGCGCCCATCCTCCCTTGCTTCCAGATTGTTTTAGTGGGCCCTGA
TGGTCATTTTTCTAAACAGAGGCCCTGCTTTGTAATATGTGGCCAAGGAGATAATTTATCTCACAGAAGCACCGG
GAAGACTTAGCCTTAAAGAGCCTACAGTGTCTTTTGGACTCTTTCACCTCGGGACATTTAATAATGGACCAAAT
TCAACAGAACACCAGGAAGGTCAAGACGCTCTCCAAAGGGCAGGAAGTACAGCACTTCCGAAGAGTTTAGTTGGC
CCTTTGCTGGTTGGGCTGAGTTTTTTATTTTAAAGTGTGTTTTTTCAGTGCAATAATTTTGTGTGTGTGTGAT
TCTTATCAGAAAGTTGAATTGTTTTCTGCCTACACCGTTCATCAGCCCCATAACCCAGGAAGGAACAGGCATTGT
TAGCATCAGATTATACCTCATTATTTAAAGGAGGCATGGCCACACATGAAGAAATGGTCATTCTACTTCAAAGAA
ATTGAGCCAGCACTATCTGTACTCCAACATTACCGGATCTGGATTGGGGAGGTTGGTCAGGGAAGAGAGGGGTTT
TACCCACAGATCAACTGTGTAATCTTTTACTATTCAAGCTATAATTCAAGCTTCAAAGTAGAGTAGAAAAAAAT
GTCTTAACTGTTCTAGTTCTTGATGGTTTTCTTCTTATTAACAGTTGGTGTTCCTTCTTGGCCCTTTTGGACT
AATGTTACTGTCCAAGTTCTTCTCAAGAAACCACATCTGGTTCAGAAGAGTGTCAAGTTGGACTCTTTGAACCTC
TGTGCTGTCTGAGCAATCGTGGTGCCTAGACTTTGCATTCTTGTCTGTTGACCTGCATACATGTGAGAGCTA
TTTCTTTAAGAACTATATAGGCTGTGAAAACGCACCTTTCTTCCCCCAAAGAGCTGGGAATTTATGAAGTTATGG
CAATGAACTGCAGCATGCTGGGACAATTATTTGACTACTTTTTTTTGTAAATATTGTCAAATGTCTCTATGGATT
TGACAGAGATTTCTTTTTGTTTTGTTATTCTTTTGGTTGTCAGTTTCATTTTAAAGAGTGAAGTAACTAGTAACATTT
TATTCTTTGGATTTTGTATAATTACAGTACATGATTGTGTATTGTGACATGAATGCTGTCAAAATGACATTGATG
GCATTGTGAAGCCTGTTACTTTGTGTCACTTCTGATAAATAAGAGGTGATGACATGGATATACAACAGAAAACA
CTTTGAGTTGAAAGTAAACACAAGCTGGCTGCTTCCCTGTGGCAACTGTGGCT

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FIGURE 691

MCHLPTGIHGARRLLPLLWLFVLFKNATAFHVTQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFN
STLPPPVIFKASYHGLYYIITLVVNGNVVTKPSRSITVLTKPLPVTSSVSIYDYKPSPETGVLFEIHYPEKYNVF
TRVNISYWEGKDFRTMLYKDFFKGKTVFNHWLPGMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPP
QNI SVRIVNLNKNWEEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPDFNSSDYETTSQPYWW
DSASAPESEDEFVSVLPMYENNSTLSETEKSTSGSFSPFPVQMILTWLPPKPTAFDGFHIEREENFTEYL
MVDEEAHEFVAELKEPGKYKLSVTTFSSSGSCETRKSQSAKSLSFYISPSGEWIEELTEKPQHVSVHVSSTAL
MSWTSSQENYNSTIVSVVSLTCQKQKESQRLEKQYCTQVNSSKPIIENLVPGAQYQVVIYLRKGPLIGPPSDPVT
FAIVPTGIKDLMLYPLGPTAVVLSWTRPYLGVRKYVVMFYFNPATMTSEWTTYEIAATVSLTASVRIANLLP
AWYYNFRVTMTWGDPELSCCDSSTISFITAPVAPEITSVEYFNSLLYISWTYGDDTTDLSHSRMLHWMVVAEGK
KKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVKLEPAPPKSLFAVNKTQTSVTLWVEEGVAD
FFEVFCCQVGSSQKTKLQEPVAVSSHVVTISSLLPATAYNC SVTSFSDSPSVPTFIAVSTMVTEMNPNVVVISV
LAILSTLLIGLLLVTLLIRKKHLQMARECGAGTFVNFASLERDGLPYNWRRSIFAFLLTLLPCLWTDYLLAFY
INPWSKNGLKKRKLTPVQLDDFDAYIKDMAKDSYKFSLQFEELKLIGLDIPHFAADLPLNRCKNRYTNILPYD
FSRVRLVMNEEEGADYINANYIPGYNSPQEYIATQGPLPETRNDFWKMVLQOKSQIIVMLTQCNEKRRVKCDHY
WPFTEEP IAYGDITVEMISEEEQDDWACRHFRINYADEMQDVMHFNNTAWPDHGVPTANAAESILQFVHMVRQQA
TKSKGPMIIHCSAGVGRGTGTFIALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTEEQYIFIHQCVQLMWMKKK
QQFCISDVIIYENVSKS

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FIGURE 692

CTACCTCTTCTCTCCACGCGGTTGAGAAGACCGGTTCGGCCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACTC
CGTAGTGACGCTGGTTTTGGAATCAGACACCGCAATGAAAAAGGGGAGACACTGCCGAAAGCAAACCGAGGAGAAA
GAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAACTGTTTTCCCAAAGC
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCTAAATCCAAAAAGGCAAAAAAGAA
AGAGGAGCCATCTCAAAATGACATTTCTCTAAAACCAAAGTTTGAGAAAGAAAAAGGAGCCCATGAAAAGAA
AGTGGTTTTCTTCTAAAACCAAAGGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC
CAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAACTGAGAATGGATTTCC
TCATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC
TGTGGAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAACTTCTCAAAGGCCGAGG
AGTGACCTTCTATTTCTTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC
ACGGACAGGAAGTGGGAAGACATTCTCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAGTGAAGACAG
GAAGAGAGGCCGTGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT
CAGTGACATCACAAAAAGCTGTGAGTGGCTTGTTTTTATGGTGAAGTCCCTATGGAGGTCAATTGAAACGCAT
GAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGATCAAGACCACATACAGAATGGCAAAGTAGATCT
CACCAACTTAAGCATGTTGTCTGGATGAAGTGGACAGATGTTGGATATGGGATTGCTGATCAAGTGAAGA
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTTCTGCAACTTGCCCTCA
TTGGGTATTTAATGTTGCCAAGAAATACATGAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT
CATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAAAGAGGCCAGGAGCTGTC
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCTTGCATGGAGACATTCCACAGAAGCAAAGGGAATCACCTT
GAAAGGTTTTAGAAATGGTAGTTTTTGGAGTTTTTGGTGCCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA
GGTTGATTGTTTATACAAAGCTCTCCACCAAGGATGTAGAGTCCCTACATTTCATCGATCCGGGCGGACAGGCAG
AGCTGGAAGGACGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTTAGTACAAGTGGAGCAAAA
AGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT
CAGGCTTTTGGATTCCGTGCCCTCCACTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAGTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGAA
AGAAGTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTTTCTCAAAGGAAAGCTGGG
TGTTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACGACGCTGGCAGCT
CTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTAGAGGACAGCGGGAAGGCAGTAGAGGCCGAG
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAAGCGGAGTTTTCAGTAAAGC
ATTTGGTCAATTAATTAGAAATAGAAGATTATATAGCAAAAAGAGAATGATGTTTGCAATATAGAAGTGAACAT
TATTTTTCATGCAAAGTTAAAGCACATTGTGCCTCCTTTGACCACTTGCCAAGTCCCTGTCTCTTTCAGACAC
AGACAAGCTTCATTTAAATTATTTTCATCTGATCATTATCATTATAACTTTATTGTTACTTCATCAGTTTTTCCT
TTTGAAAGGTGATGAATTCATTATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAATCAAGCATG
TATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAGTGTCCCTTAATAGTGTCTTCCCTGAAATA
AATACCTAAGGGAGTGAACAGTCTCTGGAGGACCATTGAGCCTTTGGAAGTTAAGGTTTCCTCAGCCACCTG
CCGAACAGTTTCTCATGTGGTCTTATTATTGTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATT
CAAATAATCTGGGTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGAAGATGTAGTATGTTTGTGATG
GATTACCTATACTTATGTTCTGTTTGTATACATTTTAGCTTCTCATTATAAGGTGATTTCATGCTTTAGTGAATC
TTCATAGATAGTATATATAAAGTACATTTTAAAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG
CTCCATAGCTTTATTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTATTGGA
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTA
AAAAA

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FIGURE 693

MNSPKSKKAKKKEEPSQNDISPKTSLRKKKEPIEKKVVSSTKKVTKNEEPSEEEIDAPKPKMKKEKEMNGET
REKSPKLKNGFPHPEDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTFLEPIQAKTFH
HVYSGKDLIAQARTGTGKTFSFAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLEVDQMLDMGFADQVEEILSVAYKKDSEDN
PQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGRTH
FCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAARGLDIPEVDLVIQSSPPKDV
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEI IKASSKDAIRLLDSVPPTAISH
FKQSAEKLIEKGAVEALAAALAHISGATSVDQRSLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK
VKGMVFLKGKLGVCFDVPTASVTEIQEKWHDSTRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRR
FRGQREGSRGPRGQRSGGGNKSNSQNKQKRSFSKAFGQ

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FIGURE 694

CCGCTGTCAAGATGCTTCTGGCCATGGTCCTTACCTCTGCCCTGCTCCTGTGCTCCGTGGCAGGCCAGGGGTGTC
CAACCTTGGCGGGGATCCTGGACATCAACTTCCTCATCAACAAGATGCAGGAAGATCCAGCTTCCAAGTGCCACT
GCAGTGCTAATGTGACCAGTTGTCTCTGTTTGGGCATTCCCTCTGACAACCTGCACCAGACCATGCTTCAGTGAGA
GACTGTCTCAGATGACCAATACCACCATGCAAACAAGATACCCACTGATTTTCAGTCGGGTGAAAAAATCAGTTG
AAGTACTAAAGAACAACAAGTGTCCATATTTTTCCGTGAACAGCCATGCAACCAAACACGGCAGGCAACGCGC
TGACATTTCTGAAGAGTCTTCTGGAAATTTCCAGAAAGAAAAGATGAGAGGGATGAGAGGCAAGATATGAAGAT
GAAATATTATTTATCCTATTTATTAAATTTAAAAAGCTTCTCTTTAAGTTGCTACAATTTAAAAATCAAGTAAG
CTACTCTAAATCAGTATCAGTTGTGATTATTTGTTTAACATTGTATGTCTTTATTTTGAATAAAT

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FIGURE 695

MLLAMVLTSALLLCSVAGQGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCGLIPSDNCTRPCFSERLSQ
MTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLLKSLEIFQKEKMRGMRGKI

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FIGURE 696

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCTAGCCCATCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCCGGGCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCACTTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGAGCGCAGCCTGGGCCCAGCCACCCCGCGCCGGCGGCCATGGCAGGCACCCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCGCGAGCTGGTGCGCATGTTCTCATGATGCACCCCTGGTACATCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCTTCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGAAGC
GGCAGGTGACTCAGCGGAACCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTCGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG
CGGAGAAGCTGTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTCGGGGGCCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAACTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTTCGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCACTACAGG
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAAACAGCCCCACGAGTTGCACCCCAACCCCGGCCCCCGG
TACTGGAGGAGTGGACCTCGGCTGCCAAACCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACCTTGACGTGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACCTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCCTATTTCTGCGCTCCAGCTCTGTGTTGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT
CCTTGCGCCCCGCTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAAGTCCACAAGCAGTGCAAGGATCGCCTGTCTAGTTGAGTGTTCGGCGCAGGGCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCTCACCTCACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG
ACATCCACTTGTAAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTGGGGCAGGAGGCTGGGGATGGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCCC
GTGTAATTAACCTTCA

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FIGURE 697

MGTQRLCGRGTQGWPGSSEQHVQEATSSAGLHSGVDELGVRSEPGGRLPERSLGPAPAPAAAMAGTLDLDKGCTV
EELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKTCHLVRYWISAFPA
EFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVP TYKWK RQVTQRN P VGQKKR KMSLLFDHLEPMELAEHLT
YLEYRSFCKILFQDYHSFVTHGCTVDNPNVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFVHVAEKLLQLQ
NFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELV TATGNYGNYRRRLAACVGFRFPILGVHLKDLVA
LQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRS
KSSPTSPTSCTPPPPPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEEFQIIRGNFPYLSA
FGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHK
QCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHL

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FIGURE 698A

AGCTTGAGCGCGCGCGCGCGTGTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCTCCCCGCTGCTCGGCGGCGGCATCTGGCCCGCGCTCCTCGC
TGCGCTTCGCCTCCGCTCCTCGGACTCGGACTCGGGTTTATATCGCGCTCACTTCATCCAGTCCCGGCGAG
CAGCGTTGGGTTTATGTCCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGAAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTCAGAGACCGAGAACTCTTCAGTCG
TTTATGTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGTCGTCAATGTCAACCGCAGCGTGTGAGACAGTTCTATCGCTACAAGATGCCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCTCCAACGTATCCCACCAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAA
AAATTTGTTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
AATTCTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTCATTCTCAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAGAAAACAGAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACAAATGAAATTAATCCTCCTCCACATACA
ATGGAAGAAGAGGAGGATGATGACTGGGGAGAAGATACTAGGAAGCTCAAAGGCGTGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTAAAGAAAAGAAAGAGAGGGTGTATTGATTCACTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCTCTTGTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAG
AAATACAGGCGCCATTTCTACGATTTTGTCAACAACAAAAAGGCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTCATCATCAGCTGGTCGGAAGAGGCTCTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTCGAAGGCTGCCAGTGTAACGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAAATTTCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTGAAGAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAATAAAGGTTTGATTTTGGTCTGTTCTTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAAGTGGCTCCTTACTTTAAATGTTCTGCCATCATTTACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCCTGGGCTGCAAAGAGGTCCTCAACAGGATGTAAAGCAAACCTAATTGTAATTAATTTATTAGCCC
ATTAAGAAAGTACTAAAGTTTATCTCTGTAGTTCTCAAATTTGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCTATAAATAATGTAAGAGC
AGGATTGAAACTTGGAGAGCTGTTTTCTCATTTTCATGTACACTTGCCCCAAATTTGCTTTGAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAAATTATTACATTAACAAGCATTTTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAACAATAAACTGATTTTATTGGGAGAAACAAGGAAGGGTGCACTTAAC
AGCAACCTAAGCATGATTTTTTACGCTTTTGCCCTTAGGGTTTAAATTACAATTCAAAATGTTAGACATACTGTA
TTTTTTCGTTTTCAGTGTGGCTTTAATTTTCCCCTCTTGCAAGTTTGTCTGTAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTTTAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTAACTGTGTTTCAAACCTGATTTCTTTT
TTTTTCTTTTTTTTTCTTCCAGAAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCAAGAAGTCTGATGGCCAC
CTGAGTGACAGGTGACAAGGACCTGACAGAGCCCATGCAAGGCTTTAGATTGGACACACAAGAGTTGATAACTTC
CTCATGAACTCCTTGCCCTGATCTAACTCATATTATGGGTTCTGACTGTTTGAATCGTCTTCAAGGTAAAC
CTCTTGGCAGTTACCTTTTCAAAAGTGACAGTGGGAATCGAGAAATCGATAGGGTTAATTTTGGAGCAGTGCC
TTATACCATTCACCTCTGTTTTTTTGTGATTATTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAA
ATTTTACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCCTTGTATCAAGATTCGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAGAGGATTTTTTTTTTCTTCAAACCTGTATGTTGCCA
GGTTTCAAATCTTTGCCGCAAGGCTGATCTGCTTTCAATTAAGTGAATCTGTAGGAGATACTGGTGACCTAAG

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FIGURE 698B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTTGGCTTAAACCAGTGTTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTCACAGGTTATCCTAATAGAGTAATTCTTCACTTTGCTCTATTG
AACTGTCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAAATAATGATAAAATTGTAAAAAAAAAAAAA

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FIGURE 699

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPTYPTKYFGCELGAQTQFDVKNDRI
VNGSHEANKLQDMLDGFIIKKFVLCPECENPETDLHVNPKKQTI GNSCKACGYRGLDTHHKLCTFILKNPPENS
SGTGKKEKEKKNRKGKDKENGVSSETPPPPPPNEINPPHTMEEEEDDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDVFKKKKEGVIDSSDKEIVAEERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGGEEDENIEVVYKAASVPKVETVKS DNKDDIDIDAI

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FIGURE 700

GGGGCGGGGAGCGGACTTCCTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTGTTCCTCCGCCCTGCCTCCGCG
GCTCGGAGGCGAGCGGAAGGTGCCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGGCAGTCCGGGGT
CGCCGGCGAGGGCCATGTCGCTGTTGGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGC
TGCTCGCCCTCCGGCCGGCGGACCCTCAACCGCCTGCGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG
ATCAGGCGCCCCGAGGGCCGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGTT
GCCTAGACCTGGAGCAGTGTTCCTTAAGGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGAAGTTAA
TGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTTCCTGCAGGCTATGGAACACACTGAAGTTCTTCAGC
TTCTCAGCCCCCAGGAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGGCTGGACAGTTTGTGAAAC
TGTGTTGCCGGGCAACTGGACATCCTTTTGTCAATATCAGTGTTCAAAATGAATAAAGAGATTCCAAATGGAA
ATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAAGATGCAGGCTTTTATGTCTGTGAGTTAATAACAATT
TCACCTTTGAATTCAGCCAGTGGTCACAGCTGGATGTTTGCACATCCAGAGAGCTTCAGAGAAGTGTGTGATG
GCGTCTCTGAATCCAAGTTGCAAACTGTGTGTTGAACCAACTTCCCAAAGCTGATGCCAGGCAGCACATTGGTTT
TACAGTGTGTGTGTTGGAAGCCCTATTCTCTACTACCAGTGGTTCAAAATGAATTACCATTAAACACATGAGA
CCAAAAGCTATACATGGTGCCTTATGTGGATTGGAACACCAAGGAACCTACTGGTGTCTATATATAATGATC
GAGACAGTCAAGATAGCAAGAAGGTAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCCTGAAGATG
AATTAAATAATCTTGGTCATCCTGATAATAAAGAGCAAACTGACCAGCCTTTGGCGAAGGACAAGGTTGCC
TTTTGATAGGAAATATGAATTACCGGAGCACCCCAAGCTCAAAGCTCCTTTGGTGGATGTGTACGAATTGACTA
ACTTACTGAGACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGG
ATGAGTTTTTACTCCTTTTAGACAAGGGAGTATATGGGTTATTATATTATGCAGGACATGGTTATGAAATTTTG
GGAACAGCTTCATGGTCCCCGTTGATGCTCCAAATCCATATAGGTCTGAAATTTGTCTGTGTACAAAATATAC
TGAAATTGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAAGAAATGACTACG
ATGATACCATTCCAATCTTGGATGCACTAAAAGTCACCGCCAATATTGTGTTGGATATGCCACGTGTCAAGGAG
CAGAAGCTTTTGAAATCCAGCATTCTGGATTGGCAATGGAATCTTTATGAAATTTTAAAGACAGATTATTAG
AAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAAAC
AGGCTCTAGAGATTCTGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTG
CTGAATCTCTTGTGCGGAATCTACAGTGGGCCAAGGCTCATGAACTTCCAGAAAGTATGTGTCTTAAGTTTGACT
GTGGTGTTCAGATTCAATTAGGATTTGCAGCTGAGTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACA
AACCACCGGAGATAATAATGTGTGATGCCTACGTTACTGATTTTCCACTGATCTAGATATTGATCCAAAGATG
CAAATAAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTTCCCAAGCATTGCCTCTATACCA
GACTCAGTTCACTGCAAAATTAAGGAACATCTAGTCTTCACAGTATGTTTATCATATCAGTACTCAGGATTGG
AAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATTAGACATGCATCGAGGTT
TGGGAAGGAAGACTTGCTTTCAAACCTTGTCTTATGTCTAATGGTCCTTACCAGAGTTCTGCAGCCACCTCAGGAG
GAGCAGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTTACCATTACATCCTGGTAATCCAAGTAATG
TTACACCAGCAGATAGCTGTCTATTGCAGCCGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCAT
GTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTAGTTTCTCTGACAGGCTCAGAA
TTTCTGAAAAATGACCTCCTTGTTTTTGAAGTTAGCATATTTTAGATGCGCTGTGAAATAGTACTGCATTACA
TAAAGTGAGACATTGTGAAAAGGCAAATTTGTATATGTAGAGAAAGAATAGTAGTAACTGTTTCATAGCAAACCTT
CAGGACTTTGAGATGTTGAAATTACATTATTTAATTACAGACTTCCTCTTTCT

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FIGURE 701

MSLLGDPLQALPPSAAPTGPILLAPPAGATLNRLREPLLRLSELDDQAPEGRGWRRRLAELAGSRGRLRLSCLDLE
QCSLKVLEPEGSPSLCLLKLMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLAGQFVKLCCRA
TGHFPVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEFSQWSQLDVCDIPESFQRSVDGVSES
KLQICVEPTSQKLMPGSTLVLCQVAVGSPIPHYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQ
LDFKVVSLDLTEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAPNPFYRSENCLCVQNILKLMQ
EKETGLNVFLLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAFAFEIQHSGLANGIFMKFLKDRILLEDKKI
TVLLDEVAEDMGKCHLTGKQKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPEMCLKFDGCVQI
QLGFAAEFSNVMIITYTSIVYKPPEIIMCDAYVTDFFLDLDIDPKDANKGTPEETGSYLVSKDLPKHCLYTRLSSL
QKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHY
HSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHSHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

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FIGURE 702

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGCCCTCTCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTGCGACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCTCACCTGCTTCTCACCCGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCTGTGGCTGCTGCGCTGCGCGCTGCTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCGGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCCTG
GCCAGCTTCGTCTGGTGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGGCGCTGGCTGCCTGCTGGCCCTGGGGTTGGATCACTTCTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAAGTGCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTGCTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCGTTGCCTTGATTTCCAGAGAA
CAGATGATTTCTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAAATTCTGGAGGTGGAATGGA
GTTGATCTTTCAGTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCAITTCCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTTCCTGGATTTTACCCTGTCTGAAATAGAGGACCCAGCTGAGAAAGGGATAGAAAACCTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGGCCTCACCAAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCCTTTTAATTCAAATCTACTGACTATCCCGAAGCAAAGGTGATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTCCAACCATGGACCAGTGTCT
ACTGGCTCTCTAACTAATCGATCACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAATGCTGAAATATGTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGAA
AAATCAGGTGAAGAAGAAAACATTTCTCGAAGAATCATTCAAACCTATGGAACTCAACAAGAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAAATAGAAAAGATGAGC
AACTGGAATTTTCAAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAACTATTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTTCTGGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTCTTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCCTGTCTTCAAACATTCCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTTATACAATGACAGATCTGTTCTG
GAAAATCATCATGCTGCGTCAGCTTGGAACTATATCTTTCTCGCCCGAATACAACCTTCCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTTCGTTTTTAGTCATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTCTCGCAGAATTCAATGCCAAGGCAATGATGTAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCGC
CTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAAGTTCCGAGACTTGCATTTGAAA
TGGACAGAAGGCATGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCCA
TTCATGGATCGTTCTTCTCCTCACTAGCAAACTCCAAGAATCTTTATCACCCACATAGTGGTCCCCCTGTGT
AACTCCTATGATGCTGCTGGTTTGGTACCAGGTGCTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGGT
GATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAAATGGAAAACAATCTAAATCCAAACCACCAAGA
AGGAAAAGCAGACGGCGAATATTTTGTACGTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAATC
GTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAATGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGAT
GAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAG

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FIGURE 703

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDAAFLVALLLGAEPESWAAGAAWLRTLLSVCSHLSPLFSIACAFFFLTCLTRTKRGPGPGRSCG
SWWLLALPACCYLGDFLVWQWWSWPWGDGDAGSAAPHTPPEAAAGRLLLVLSVGLLLTLAHLRLRHCVLVLLL
ASFVWVVSFTSLGSLPSALRPLLSGLVGGAGCLLALGLDHHFQIREAPLHPRLSAAEEKVPVIRPRRRSSCVSL
GETAASYYGSKIFRRPSLPCISREQMILWDWDLKQWYKPHYQNSGGGNGVDLSVLNEARNMVSDLLTDPSPFPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNPGFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSPVNSSNHGPVS
TGSLTNRSPIEF PDTADFLNKP SVILQ RSLGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTSESDGTDCSCG
KSGEEENIFSKESEFKLMETQEEEEKEDSRKLFQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFP IFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDIYPHNRIHATDVLHAVW
YLTRPVPGLOQIHNCGGTGNETDSDGRINHGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PGRTNAFLVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLHLDHVEFKRFRELVIEAILATDLKKHFD
FLAEFNAKANDVNSNGIEWSNENDRLLVCQVCIKLADINGPAKVRLHLKWTEGIVNEFYEQGDEEANLGLPISP
FMDRSPQLAKLQESFITHIVGPLCNSYDAAGLLPGQWLEAEEDNDTESGDDEDGEELDEDEEMENNLNPKPPR
RKSRRRIFCQLMHHLTENHKIWKEIVEEEKCKADGNKLQVENSSLPQADEIQVIEEADDEE

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FIGURE 704

CCATTCTTCTCCCGGGAGCCCTCATCTATGCACATCTCCTCAAGCCTGCCCCCTGACACACAGAAGTTCCTTCGC
TTTGCAGAGACTCACCGCACTGTGTTAAACCAGATCCTACGGCAGTCCACGACCCACCTTGCTGATGGGCCTTTT
GCTGTCTGGTAGACTACATTTCGTGTCCTCGACTTTGATGTCAAGCGCAAATATTTCCGCCAAGAGCTGGAGCGT
TTAGATGAGGGGCTCCGGAAAGAAGACATGGCTGTGCATGTCCTTCGTGACCATGTGTTTGAAGACTCCTATCGT
GAGCTGCATCGCAAATCCCCGAAGAAATGAAGAATCGATTGTATATAGTATTTGAAGGAGAAGAAGGGCAGGAT
GCTGGCGGGCTCCTGCGGGAGTGGTATATGATCATCTCTCGAGAGATGTTTAACCCCTATGTATGCCTTGTTCCGT
ACCTCACCTGGTGATCGAGTCACCTACACCATCAATCCATCTTCCCACTGCAACCCCAACCACCTCAGCTACTTC
AAGTTTGTGCGACGCATTGTGGCCAAAGCTGTATATGACAACCGTCTTCTGGAGTGCTACTTTACTCGATCCTTT
TACAAACACATCTTGGGCAAGTCAGTCAGATATACAGATATGGAGAGTGAAGATTACCACTTCTACCAAGGTCTG
GTTTATCTGCTGGAATAATGATGTCTCCACACTAGGCTATGACCTCACCTTCAGCACTGAGGTCCAAGAGTTTGA
GTTTGTGAAGTTCGTGACCTCAAACCCAAATGGGGCCAACATCTTGGAACAGAGGAGAATAAGAAGGAGTATGTA
CACCTGGTATGCCAGATGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTCTTAGAAGGCTTCTATGAG
ATCATTCCAAAGCGCCTCATTTCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAGGACTGCCCACCAT
GACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCAGTCCAACCTCTATTAGATCCAGTGGTTCTGG
AGAGCATTGCGTTCTTTTCGATCAAGCTGACCGTGCCAAGTTCCCTCCAGTTTGTACGGGTACTTCCAAGGTACCC
CTGCAAGGCTTTGCTGCCCTCGAAGGCATGAATGGCATTGAGAAGTTTCAGATCCATCGAGATGACAGGTCCACA
GATCGCCTGCCTTCAGCTCACACATGTTTTAATCAGCTGGATCTGCCTGCCTATGAGAGCTTTGAGAAGCTCCGC
CACATGCTACTGTTGGCTATCCAGGAGTGCTCTGAAGGCTTTGGGCTGGCCTAATAAGGCCCTGCCCAACTCCGT
GGGGTTTTTTTTTACCATTGTTGGACCTGGGGAGGGGGAGTTAAAAAAGAACCAGAAAGAAATTGTCAAAAACC
AATAAATGAAATCCACCAACTCACCGTGTGTGTCCAGCTGCCCCATCTTCCCAGCGCATACCTGTTCCTCTTC
TCATTCTCTCCCGCCGCTGTTTCCTCACCTTCTCTCCCCTTTCCATGCCGTCCATGATCCCCACCCCATGTGT
TTTAAAAAGGCAGTAGCCTTTGCAGGGACCTGTCTGTCCCAACTGTTGAACAGTGTGCTCCTCAGATTCTGTGT
TCAGAAGGATTTGCTGCATTGAGACTTGAAACCTTTGGATAGGGGAAAAAATTATATATATATATATTTTTTGT
TCTGTTTGCAATTTCTAATTTGTGCTTGAATGTGTGATGTGCACAGCTAATGATTCAATGCGAGACAAGATTG
GCGTCTGTGTTGTGGAGGTTTCAAATAAAGAGCACTCTTCATAACTCAAAAAAAAAA

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FIGURE 705

MIISREMFNPMYALFRTSPGDRVTYTYINPSSHCPNHLSYFKFVGRIVAKAVYDNRLLCYFTRSFYKHILGKSV
RYTDMESDYHIFYQGLVYLLENDVSTLGYDLTFSTEVQEFVCEVRDLKPNGANILVTEENKKEYVHLVCQMRMT
GAIRKQLAAFLEGFYEIIPKRLISIFTEQELELLISGLPTIDIDDLKSNTYHKKYQSNISIQWFWRALRSFDQA
DRAKFLQFVTGTSKVPLQGFAALEGMNGIQKFQIHRDDRSTDRLPSAHTCFNQDLDPAYESFEKLRHMLLLAIQE
CSEGFGLA

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FIGURE 706A

TCTAGATGGGGGTCTTGGGCCCCAGGGTGTGCAGCCACTGACTTGGGGACTGCTGGTGGGGTAGGGATGAGGGAG
GGAGGGGCATTGTGATGTACAGGGCTGCTCTGTGAGATCAAGGGTCTCTTAAGGGTGGGAGCTGGGGCAGGGACT
ACGAGAGCAGCCAGATGGGCTGAAAGTGGAAGTCAAGGGGTTTCTGGCACCTACCTACCTGCTTCCCGCTGGGGG
GTGGGGAGTTGGCCAGAGTCTTAAGATTGGGGCAGGGTGGAGAGGTGGGCTCTTCTGCTTCCCACTCATCTTA
TAGCTTTCTTTCCCCAGATCCGAATTCGAGATCCAAACCAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTG
GGGCCCCGACTGCCTCCACACCCACCCCTCCCCAGACGGGAGGCAGTCTGGAGCCTCAAGCTAATGGGGAGACGC
CCCAGGTGCTGTCTATTGTCCGGCCAGATGACCGGTACAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTG
GCCCAGAGCATAGCCCTTCAGAAATCCCAGCCTTCGTGCGCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAAC
CGGGGTCTGAGCCTAATCTCGCAGTCTCTCTATTCTGGGGACACTATGACAACTATACAAATGTCTGTAGAAG
AATCAACCCCCATCTCCCGTGAAACTGGGGAGCCATATCGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCA
TACTGGAAAGTAGAAGTGACACTTAGCAAACCGGTTCCAGAACTGTAGTCTTCTTCCAGTCTCTCCAGGCTCCCA
CCCTTTTGGCATCTCACAGGTGGAATTCATGAGCCTAATGGCATGGTCCCATCTGAAGATCTGGAACAGAGG
TGGAGTCAAGCCAGAGCTTGCTCCTCCCCAGCTTGCCCTCCGAATCCCTGTGCCCATTGCTCCAAC TGCCC
AACCTGAGAACTGCTCAACGGAGCCCCCTCGCCACCAGCTGTGGACTTAAGCCAGTCAGTGAGCCAGAGGAGC
AGGCCAAGGAGGTGACAGCATCAGTGGCGCCCCCACCATCCCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTA
CTTCCCCAGCTCAGGAGGAGGAAATGGAAGAAGAAGAAGATGAGGAAGAAGGAGAAGTAGGGGAAGCAGGGGAAG
GTGAGAGTGAGAAGAGAGGAGAGGAACTGTCCCCCAGAGAGTACCCCTATTCCAGCCAATTGTCTCAGAATT
TGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTGCCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGA
AGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAGGCGAACCCGGCAGTACCAGAGGTGGAAAATCAGCCTC
CTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGTGGTGTGCCCCACGTCCTGAGGAAGCAGATGAGACCT
GGGACTCAAAGGAAGACAAAATTCAATGCTGAGAATCCAGCCCGGGGAACAGAAGTATGAATATAAGTCAG
ATCAGTGGAGCCTCCAAACCTAGAGGAGAAAAACGTTACGACCGTGAGTCTCTGCTTGGTTTCAGTTCATCT
TTTGCCAGATGCAGAAGCCAGAGGGATTGCCACATATCAGTGACGTGGTGTGGACAAGGCCAATAAAACACCAC
TGCGGCCACTGGATCCCACTAGACTACAAGGCATAAATTGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTG
GCCGACAACCCCTAGCACCCGTGGGCCCCCAAGGGGTGGGCCAGGTGGGGAGCTCGCCCGTGGCGCGCAGGCTG
GCCTGGGACCCCGCGCTCTCAGCAGGGACCCCGAAAAGAACCCAGCAAGATCATTGCCACAGTGTTAATGACCG
AAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAACCCAGCAGCAAGCGGACAGCGGCTGATAAGGATCGAG
GGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTCCGCAGGTGGCGCTCCATCCTGAATAAACTGACAC
CCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTGGCCATCGACACCGAGGACGCCTCAAAGGGGTGAT
TGACCTCATTTTTGAGAAGGCCATTTAGAGCCCAACTTCTCTGTGCGCTATCCAACATGTGCCGCTGCCTCATG
GCGCTGAAAGTGCCCACTACGGAAGCCAACAGTGACTGTGAACTTCCGAAAGCTGTTGTTGAATCGATGTGAGA
AGGAGTTTGAGAAAGACAAAGATGATGATGAGTTTTTGAGAAAGCAAAAAGAGATGGATGAAGCTGCTACGG
CAGAGGAACGAGAAGCGCTGAAGGAGGAGCTGGAAGAGGCTCGGGACATAGCCCGCGCTGCTCTTAGGGAATA
TCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTAACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGC
TTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGTCTGCTGCTCACCACCATTTGGCAAAGACCTGGACTTTG
AAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAGATGGAAAAAATCATTAAAGAAAAGAAGACGTCATCCC
GCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGAGGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTC
CAAGACCATTGACCAGATCCATAAGGAGGCTGAGATGGAAGACATCGAGAGCACATCAAAGTGCAGCAGCTCATG
CAAGGGCAGTGACAAGCGTGGGGCGGTCTCCAGGCCCTCCCATCAGCCGTGGACTTCCCTTTGGATGATGG
TGGCTGACACAGTTCCTATCAGCAAAGGTAGCCGCCCATTTGACACCTCAGACTCACCAAGATCACCAAGCCTG
GCTCCATCGATTCTAACAACCAGCTCTTTGACCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGGT
CAGGAGCCCAGCCCTCAGACGCAGCATCAGAAGTGTCTCGCCAGCTACTAGTACTTTGATTGCTTCTCAGCCC
TTCAACAAGCGGTACCCACAGAAAGCACAGATAATAGACGTGTGGTGAGAGGAGTAGCTTGAGCCGAGAACGAG
GCGAGAAAGCTGGAGACCGAGGAGACCGCCTAGAGCGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCG
TGTCGCGGACACCTGCTACCAAGCGGACGTTACAGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCAGC
CTGAGGGGCTGCGCAAGGCAGCTAGCCTACGGAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTG
CCCTACCCCCAGTGAGCCCCCTGAAGGCGGCTCTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTG
AGGAATATCTCCATCTCAATGACATGAAAGAGGCAGTCCAGTGCCTGCAGGAGCTGGCCTCACCCCTCTGTCTT

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FIGURE 706B

TCATCTTTGTACGGCATGGTGTGCGAGTCTACGCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGC
TGCACCAGCTGCTCTGTGCTGGGCATCTGTCTACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAAATTGG
CTGAGGACATGGAATTTGACATCCCCCAGTGTGGCTCTACCTAGCGGAACTGGTAACACCCATTCTGCAGGAAG
GTGGGGTGCCCATGGGGGAGCTGTTTACGGGAGATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGT
TGCTGGAGATCCTGGGCCTCCTGTGCAAAAGCATGGGTCTTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGC
TTAGCTGGAAGGAATTTCTACCTGAAGGCCAGGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCC
TGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAGGGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGC
TGAAGGAGGGCAGCAGTAACCAGCGGGTGTTCGACTGGATAGAGGCCAACCTGAGTGAGCAGATAGTATCCAACA
CGTTAGTTCGAGCCCTCATGACGGCTGTCTGCTATTCTGCAATTATTTTGTAGACTCCCCCTCCGAGTGGACGTTG
CAGTGCTGAAAGGCGACATAGTGCTGCAGAAATACCTGTGTGACGAAGCAGAAGGAGCTACAGGCGCTCTACGCC
TCCAGGCCCTTGTAGTGACCTTAGAACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGG
ACGTGGTGAAGGAGGATGCCTTCTACAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGG
CCCTTAAATCTGTACAGCCTTCTTCAAGTGGCTCCGTGAAGTCAGAGGAGGAGTCTGACCACAACCTGAGGGCTG
GTGGGGCCGGGGACCTGGAGCCCCATGGACACACAGATGGCTCCGGCTAGCCGCCTGGACTGCAGGGGGGCGGCA
GCAGCGCGGGTGGCAGTGGGTGCCTGTAGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCT
TGGGGCTGCCTGGGCCCCCTCCAGGATGCCGCCAGGTGTCCCTCTCCTCCCCTGGGGCACAGAGATATATTATA
TATAAAGTCTTGAAATTTTGAAATTTGGTGTGTCTTGGGGTGGGGAGGGGCACCAACGCCTGCCCCTGGGGTCC
TTTTTTTTATTTCTGAAATCACTCTCGGACTGCCGTCTCGCTGCTGGGCATATGCCCCAGCCCCCTGTACCAC
CCCTGCTGTTGCCTGGGCAGGGGAAGGGGGGCACGGTGCCTGTAATTATTAAACATGAATTCAATT

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FIGURE 707

MSGARTASTPTPPQTGGSLEPQANGETPQVAVIVRPDDRSQGAIADRPGLPGPEHSPSESQPSSTPSPSPV
LEPGSEPNLAVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEPILEVEVTLSPVPESEFSSSPLQ
APTPLASHTVEIHEPNGMVPSEDLPEVESSPELAPPPACPSESPVPIAPTAQPEELLNGAPSPPAVDLSPVSEP
EEQAKEVTASVAPPTIPSATPATAPSATSPAQEEEMEEEEDEEEGEVGEAGEGESEKRGEEELLPESTPIPANLS
QNLEAAAAATQVAVSVPKRRRKIKELNKKEAVGDLDAFKEANPAVPEVENQPPAGSNPGPESESGVPPRPEEAD
ETWDSKEDIHNAENIQPGEQKYEYKSDQWKPPNLEEKRYDREFLLGFQFIFCQMCKPEGLPHISDVVLDKANK
TPLRPLDPTLQGINCGPDFTPSFANLGRITLSTRGPPRGPGGELARGAQAGLGPRRSQQGPRKEPRKIIATVL
MTEDIKLNKAEKAWKPSSKRTAADKDRGEEDADGSKTQDLFRRWRSILNKLTQMFOQLMKQVTQLAIDTEDASK
GSLTSFLRRPFQSPISLWPIQHVPPLPHGAESAHYGKPTVTNFRKLLNRCQKEFEKDKDDDEVFEKKQKEMDEA
ATAEERERLKEELEEARDIARRCSLGNIKFIGELFKLMLTEAIMHDCVVKLLKNHDEESLECLCRLTTIGKDL
DFEKAKPRMDQYFNQMEKIIKEKKTSSRIRFMLQDVLDLRGSNWVPRRGDQGPRPLTRSIRRLRWKTSRAHQSA
AHARAVTSVGAVALQALPSAVDFPLWMMVADTVPIKSGSRPIDTSRLTKITKPGSIDSNNQLFAPGGRLSWGKSS
GGSGAQPSDAASEAARPATSTLIRFSALQAVPTTESTDNRRVVQRSSLSRERGEKAGDRGDRLERVNGEGTVGTG
LIVSRTPATKRTFSKEVEERSRERPSQPEGLRKAASLTEDRDRGRDAVKREAALPPVSPLKAALSEEELEKKS
IIEEYLHLNDMKEAVQCVQELASPSLLFIFVRHGVSTLERSAIAREHMGQLLHQLLCAGHLSTAQYYQGLYEIL
ELAEDMEIDIPHVWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLEILGLLCKSMGPKKVGTWRE
AGLSWKEFLPEGQDIGAFVAEQKVEYTLGESEAPGQRALPSEELNRQLEKLLKEGSSNQRFVDWIEANLSEQIV
SNTLVRALMTAVCYSAIFETPLRVDVAVLKGDIVLQKYLCEAEGATGALRLQALVVTLEQPPNLLRMFFDALY
DEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREVRGGV

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FIGURE 708

AAAAAGAAATCAAGAATGCAATTTTATTATTACAATAGTCACGCCGGAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAAGACCTCTACAAGGAGAGTTCAATGCGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCCGCCGCTAGTTACCATCACACCCGAGAGCCCGAGCTGCCGCAGCCGGCCCCAGTCACCATC
ACCGCAACCATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCGCCGCCGCCGCCGCCGCCGCCCTCAGCGCC
GCCGACACCAAGCCCGGCACTACCGGAGCGGCGCAGGGAGCGGTGGCCCGGGCGGCTCACATCGGCGGCGCTGGC
GCGGGCGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTAAATGGTTCAATGTAAGGAACGGATATGGT
TTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAG
TACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGGTGCGGAGGCAGCA
AATGTTACAGGTCTTGGTGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAACCATTATAGACGCTAT
CCACGTCGTAGGGGTCTTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGA
TCGGAGAGTGCTCCCGAAGCCAGGCCCAACAACGCCGCCCTACGCAGGCGAAGGTTCCACCTTACTACATGCG
GAGACCTATGGGCGTCGACCACAGTATTCCAACCTCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAG
GGTGCAGGAGAACAAAGGTAGACCAGTGAGGCAGATATGTATCGGGGATATAGACCAGATTCCGCAGGGGCCCTC
CTCGCCAAAAGACAGCCTAGAGAGGACGCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAG
CAGCCACCTCAAGCTCGGTACCGCCGCACTTCAATTACCGACGCAGACGCCAGAAAACCTAAACCACAAGAT
GGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTGAG
TAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCAGCAATA
AGAAATGAACAAAAGATTGGAGCTGAAGACCTAAAGTGCTTGTCTTTTGCCCGTTGACCAGATAAATAGAACTAT
CTGCATTATCTATGCAGCATGGGGTTTTTATTATGTTTTACCTAAAGACGTCTCTTTTGGTAATAACAAACCGT
GTTTTTAAAAAAGCCTGGTTTTTCTCAATACGCCTTTAAAGGAATTCC

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FIGURE 709

MSSEAETQQPPAAPPAAPALSAADTKPGTTGAAQGAVARAHHIGGAGAGDKKVIATKVLGTVKWFNVRNGYGFIN
RNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAAANVTGPGGVPVQGSKYAADRNHYRRYPRR
RGPPRNYQQNYQNSESGEKNEGSESAPEARPNNAGPTQAKVPTLLHAETYGRRPQYSNPPVQGEVMEGADNQGAG
EQGRPVRQICIGDIDHDSAGALLAKRQFPREDGNEEDKENQGDETQGQQPPQARYRRNFNYRRRRPENPKPDGKE
TKAADPPAENSSAPEAEQGGAE

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FIGURE 710

GGTAAGAGAAGACTGGAAGCATGTCGGAGTTTTGGTTAATTTCTGCCCTGGCGATAAGGAAAATTTGCAAGCTC
TGGAGAGGATGAATACTGTAACCTCCAAGTCCAACCTGTCTTATAATACCAAATTCGCTATTCCTGACTTCAAGG
TGGGGACCTTGGATTCCCTGGTTGGCCTCTCTGATGAGTTGGGGAACTCGACACCTTTGCTGAAAGCCTCATAA
GGAGAATGGCTCAGAGCGTGGTGGAAAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCCTGGCAAACG
GAGTTGACTTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCGCTCGTGA
GTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAGTCCCGAACGGCCGCCTACGACA
CTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCCATGGGGAACTCTTCACCCGGACACTGAGTGATATTG
TGAGCAAAGAGGACTTCGTGCTGGATTCTGAATATCTCGTCACACTTCTGGTCATCGTCCCCAAACAACTACT
CACAATGGCAAAAAACCTACGAATCTCTCTCAGACATGGTGGTCCCTCGATCAACCAAACCTCATTACTGAGGACA
AGGAAGGGGGCCTTTTCACTGTGACTCTGTTTCGAAAAGTGATTGAAGATTTCAAACCAAGGCCAAAGAAAAACA
AGTTCACTGTTCTGTGAATTTTACTATGATGAGAAGGAAATTGAAAGGGAAAGGGAGGAGATGGCCAGATTGCTGT
CTGTAAAGAACAACAGTATGGCCCCCTGCTGCGCTGGCTCAAGGTGAACCTTCAGTGAAGCCTTCATTGCCTGGA
TCCACATCAAGGCCCTGAGAGTGTGTTGTGGAGTCCGTGCTCAGGTATGGACTACCAGTGAACCTTCAGGCAGTGC
TCCTGCAGCCGCATAAGAAGTCATCCACCAAGCGTTTAAAGAGAGGTTCTAAACTCTGTCTTCCGACATCTGGATG
AAGTAGCCGCTACAAGTATACTGGATGCATCTGTGGAGATCCCGGGACTGCAACTCAATAACCAAGACTATTTTC
CTTATGTCTACTTCCATATTGACCTTAGTCTTCTTGACTAGCAAGGCCAGCTGGCACCTCTGTCTCATGTTCTGTG
CAGATTATTACAGACACCTCTTTCTTTAGCCAGAGAATGGTTCAAATGTCTTACAGAATAAGATCTTTTTTCAG
AGAAATTGCTCACAAAAGTTAGTGACAGTTGTATTTATTTTTTAAAGTTACAATAAAATGCTCTCAAGTCCTTTG
AATGTTCCAACAAATTCAAACCTTCATTTTCTGAATGTTTACATAAATGCGAACTACCTGTTGCGATTGGTAAC
CTGCTGCTGTATTTTCATGTCTTAACGGCTATTTTGAGGTTCAATAACAACATAGAAAGCCTGAACTGTATAACC
AGCTAGATTCCCTTAATAATTAGTCACTAGAGACAGCCCAAAGACAAATATTGGGCAGGAAATCAGTTCTCACTGA
GCCCGGTTTCCATGTAAAATCTCTGTTGTGGTGGGCATAGGTGGCACCATCTAAAGAAAAGAGGTCTTGTTTTT
GTTTAAAAAGTTTGTGGGGAGGAAAGACATCTGTGTATCACTTCAAATATTGATTTACTGCTAAACATCACTC
TGAATTTATGATGTGGATACTAACTTCATACATTTATCGGCATTGTCCAAATATTTTATTCTTAAATGGAAAAA
GCCATTAATATTCAAATGAAGGGATCACATTAACAAAAACCCATACATAAGAAACAGCCTCCAAGAACATTCAAG
CAGCAGTCAGAGAGAAAAATGTTTCGACAGCCAAGTTTTCTTCAAATATTTATGTGACAGAATACGACTCAATTC
ACCGGCTACAACAATTATAGAAATTTTCAATGTTTTCTTGAGATGCAAAAGTTCAGTGTGTCAGTGTTCCTCAA
TGACCAATCAAGTACTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCATCTGAGTGTAGAGAATGTCCCTTCAC
GCTGGAAAAATCCACTGGCTCCCAAGAAAAGAAAATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTT
CCCTAAGTCATCAAGCTCCACATCACTGAGGTCAATGTCTATCTCCACGGGAAGCTGGGAGACGACAGAAAGCCA
CTGTTAGATCTGCAGAAGGGGACACCCGGAAGGTCAACATCTCATTTTATGGAAGAGCGACTCTCTGGAGCTAC
TCCTGCTACAATCCAGGTTCTCCTCAGTCTGACTCCTACCCTGACCTTCGTACCTATGATTATACGGATGGAAAA
GCTCAGAACTCAGGTGAAACATTTCAACATCACATCACTCACCATTTTAACTGGAAGCCACTTGAACGTGTCC
TTTTGAGGAGGGTGGGACACAACAGTACAGAAATAAGTGCTAATTTCAAAGCTATCATTTTCTATTTTTCTAAGA
TAAAGTAAATGAATTCAGGTTAAATGTTCACTTTAAGGTAATAATCAGGAAAGCAACCTTACTACTGAAATGTA
TCTTGGCTGTCAAGAGTATCAAATGCCATGCAGCACTTAACTTTGTGATAAGGAAGATGAAGGGTCTTCAGAGAA
GAACCTCTTAAAGGCCACGGGTGCACCAGGGCTGAGGTCTGATGGGAAGGACTTGACTCCAGGTGCAGAGATG
CACAGGCTCAAGAGAGTAAACCAGGACTGCTGCCCGCACAGCTTCCCTCCCGGGCACTCACCTCGCCATCCCTGC
CGTCCCAAGGCTCTCTCTCAACGATGGTAGGGAAAGCCCCGCCTCTACAGGTGCCGTGGAGCCACGCCCCAAAG
AGAGCTCCCTTAGGGAAAAATGACCAAAACACACACACATTTACAATGGACTGCTGGTGCAGAAGAATAAACA
ACTTTAAAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 711

MSEFWLISAPGDKENLQALERMNTVTSKSNLSYNTKFAIPDFKVGTLDSLVLGSLDELGKLDTFAESLIRRMAQSV
VEVMEDSKGKVQEHL LANGVDLT SFVTHFEWDMAKYPVKQPLVSVD TIAKQLAQIEMDLKSRTAAYDTLKTNLE
NLEKKSMGNLFTRTLSDIVSKEDFVLDSEYLVTL LVIVPKPNYSQWQKTYESLSDMVVPRSTKLITEDKEGGLFT
VTLFRKVIEDFKTKAKENKFTVREFYYDEKEIEREREEMARLLSDKKQYGPLLRLKVN FSEAFIAWIHIKALR
VFVESVLR YGLPVNFQAVLLQPHKKSSTKRLREVLNSVFRHLDEVAATSILDASVEIPGLQLNNQDYFPYVYFHI
DLSLLD

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FIGURE 712

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTTCGCCCGACGCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGGGCTCTTGTGCGCGCTGCTCGCCACCGCTGGAAGAGCCGAGCCCCGGCCAGTCGGTTCGCT
TGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCCGCGGGAGAGGCGCGGCCATGGCTTCTGGAG
CCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGATG
AAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTG
ACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTGCATCGTCCTTTCTGATGATACTTGTTCGATG
AGAAGATTCGGATGAATAGAGTTGTTTCGGAATAACCTTCGTGTACGCCCTAGGGGATGTCATCAGCATCCAGCCAT
GCCCTGATGTGAAGTACGGCAAACGTATCCATGTGTGCCCATTGATGACACAGTGGAAAGGCATTACTGGTAATC
TCTTCGAGGTATACCTTAAGCCGTACTTCTCGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGTC
GTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACA
CAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGATG
ACATTGGTGGCTGCGAAGCAGCTAGCTCAGATCAAAGAGATGGTGGAACTGCCCCTGAGACATCCTGCCCTCT
TTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCGTATTG
CTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATTGGCTG
GTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGATG
AGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTTGA
CCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGACC
CAGCTCTACGGCGATTTGGTGCCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGAGA
TTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCAG
GGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCTCA
TTGACCTAGAGGATGAGACCATTGATGCCGAGGTCTGAAGTCTCTAGCAGTTACTATGGATGACTTCCGGTGGG
CCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCG
GGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCAGACAAATTCCTGA
AGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAAAG
CCATTGCTAATGAATGCCAGGCCAACTTCTCCTCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGAGT
CTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGG
ATTCGATTGCCAAGGCTCGTGGAGGTAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGATCC
TGACAGAAATGGATGGCATGTCCACAAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCATTG
ATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCCTTCCTGATGAGAAGTCCCCTGTTG
CCATCCTCAAGGCTAACCTGCGCAAGTCCCGAGTTGCCAAGGATGTGGACTTGGAGTTCCTGGCTAAAATGACTA
ATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTCTTGCAAGCTGGCCATCCGTGAATCCATCGAGA
GTGAGATTAGCGGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCCTG
AGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTGAGTGACAAATGACATTCCGAAGT
ATGAGATGTTTGGCCAGACCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGGTG
GAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACACAGAAGACAATGATGATGACCTGT
ATGGCTAAGTGGTGGTGGCCAGCGTGCAGTGAGCTGGCCTGCCTGGACCTTGTTCCTGGGGGTGGGGCGCTTGC
CCAGGAGAGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGACTC
TGGACAGGGGTTTCTGTTGCAAAAATACAAAACAAAGCGATAAAATAAAGCGATTTTCATTGGTAGGCGGA
GAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTTCTGTTGTAGTTTGGGGCAGTGCAGGGGACC
TGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCCCGA
GCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGTAGG
TTGATTTATTTTACATGCTTTTGAGTTAATGTTGGAAAACATAACACAAGCAGTTTCTAAACCAAAAAATGACAT
GTTGTAAGGACAATAAACGTTGGGTCAAAATGGAAAAA

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FIGURE 713

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD
IFLVRGGMRAVEFKVETDPSYCVAPDTVHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLRKAFEEAEKNAPAI
IFIDELDAIAPKREKTHGEVERRIVSQLLTIMDGLKQRAHVIVMAATNRPN SIDPALRRFGREFDREVDIGIPDAT
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAALQAIKKMDLIDLEDETIDAEVMNSLAVTMD
DFRWALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPFGCGKT
LLAKAIANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV
INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDFLEFL
AKMTNGFSGADLTEICQRACKLAIRESIESEIRRERERQTNP SAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
DIRKYEMFAQTLQQSRGFGSFRFP SGNQQGAGPSQGS GGTGGSVYTEDNDDDLYG

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FIGURE 714

GGATCGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGCGGCGGCGGCTCAGGGGAAACGAGG
CTGCAGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACATATCGCTGAGGACCTGGTTCGT
GACCAAGTATAAGATGGGGGGCGACATCGCCAACAGGGTACTTCGGTCCTTGGTGGAAGCATCTAGCTCAGGTGT
GTCGGTACTCAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAACTTCAAGAAAGAAAA
GGAAATGAAGAAAGGTATTGCTTTTCCACCAGCATTTCGGTAAATAACTGTGTATGTCACCTTCTCCCTTTGAA
GAGCGACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCAT
CGCTAATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAAGTAACAGGGAGGAAAGCAGATGTTAT
TAAGGCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGA
AGCCTGGAACAAAGTTGCCCACTCATTAACTGCACGCCAATAGAAGGTATGCTGTACACCAGTTGAAGCAGCA
TGTCATCGATGGAGAAAAACCATTATCCAGAATCCACAGACCAGCAGAAGAAGGACCATGAAAAAGCTGAATT
TGAGGTACATGAAGTATATGCTGTGGATGTTCTCGTCAGCTCAGGAGAGGGCAAGGCCAAGGATGCAGGACAGAG
AACCCTATTTACAAACGAGACCCCTCTAAACAGTATGGACTGAAAATGAAAACCTTACAGTGCCTTCTTCAGTGA
GGTGGAAAGGCGTTTTGATGCCATGCCGTTTACTTTAAGAGCATTGGAAGATGAGAAGAAGGCTCGGATGGGTGT
GGTGGAGTGCGCCAAACATGAACGTGCTGCAACCAATTAATGTTCTCTATGAGAAGGAGGGTGAATTTGTTGCCCA
GTTTAAATTTACAGTTCTGCTCATGCCCAATGGCCCCATGCGGATAACCAGTGGTCCCTTCGAGCCTGACCTCTA
CAAGTCTGAGATGGAGGTCCAGGATGCAGAGCTAAAGGCCCTCCTCCAGAGTTCTGCAAGTCGAAAAACCCAGAA
AAAGAAAAAAGAAGGCCCTCCAAGACTGCAGAGAATCCCACCAGTGGGGAAACATTAGAAGAAAATGAAGCTGG
GGACTGAGGTGCGTCCCATCTCCCCAGCTTGCTGCTCCTGCCTCATCCCCTTCCCACCAAACCCAGACTCTGTG
AAGTGCAGTTCTTCTCCACCTAGGACCGCCAGCAGAGCGGGGGGATCTCCCTGCCCCACCCAGTTCCCCAACCC
CACTCCCTTCCAACAACAACCAGCTCCAACCTGACTCTGGTCTTGGGAGGTGAGGCTTCCCAACCACGGAAGACTA
CTTTAAACGAAAAAAGAAATTGAATAATAAAATCAGGAGTCAAAATTCATCGTCTTCAAGGCCCTCTTTCTAG
CCTTTTCTACTACTCTCTGCTTGGTCAAGGTTTGTGCCCCACTACAGAACAGGGCTAAATTAGCCACCACCCTG
AAAACCTAGCCGAATTTTTTTATACCACTCTGACGTCAGCATTTTTT

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FIGURE 715

MSGEDEQQEQTIAEDLVVTIKYKMGGDIANRVLRSLEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA
FPTSISVNNCVCHFSPKSDQDYILKEGDLVKIDLGHVHVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA
EAALRLVKPGNQNTQVTEAWNKVAHSFNCTPIEGMLSHQLKQHVIDGEKTI IQNPTDQQKKDHEKAEFEVHEVYA
VDVLVSSGEGKAKDAGQRTTIYKRDPSKQYGLKMKTSRAFFSEVERRFDAMPFTLRAFEDKKARMGVVECAKHE
LLQPFNVLYEKEGEFVAQFKFTVLLMPNGPMRITSGPFEPDLYKSEMEVQDAELKALLQSSASRKTQKKKKKKAS
KTAENPTSGETLEENEAGD

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FIGURE 716

GTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGCTTTCAGGAAAT
GCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTGTGTGCCCCACGGAG
ATCATTGCTTTTCACTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCACTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTA
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAAACATGGGGAAGTGTGCCAGCTGGCTGGAAACCTGGC
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAACACAAG
ACTTCAGATTCAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCCTACAGGGGGTGGAGAGACCAGCCTTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTGTAGTTTGTATTAACTTGAAGTGAAG

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FIGURE 717

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLS DYKGKYV VFFFYPLDFTFVCPT EIIAFSDRAEEFKKLNCQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 718A

CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTCTTCTGTGTGGCAGTTCAGAATGATGGATCAAGCTAGAT
CAGCATTCTCTAACTTGTTTGGTGGAGAACCATTGTATATACCGGTTTCAGCCTGGCTCGGCAAGTAGATGGCG
ATAACAGTCATGTGGAGATGAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCA
CAAAACCAAAAAGGTGTAGTGGAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTCTTGATTGGATTTA
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACCAAAAACCTGAGTGTGAGAGACTGGCAGGAACCGAGTCTC
CAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCGACGCTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGT
CGGAGAACTGGACAGCACAGACTTCACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGG
CTGGATCTCAAAAAGATGAAAATCTTGCGTTGTATGTTGAAAATCAATTCGTGAATTTAACTCAGCAAAGTCT
GGCGTGATCAACATTTTGTAAAGATTCAGGTCAAAGACAGCGCTCAAAACTCGGTGATCATAGTTGATAAGAACG
GTAGACTTGTTTACCTGGTGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAAC
TGGTCCATGCTAATTTTGGTACTAAAAAGATTTTGGAGATTTATACACTCCTGTGAATGGATCTATAGTGATTG
TCAGAGCAGGGAAAAATCACCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATAT
ACATGGACCAGATAAATTTCCCATTTGTTAACGCAGAACTTTCATTCTTTGGACATGCTCATCTGGGGACAGGTG
ACCTTTACACACCTGGATTCCCTTCCCTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATA
TACTGTCCAGACAATCTCCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACT
GGAAAAACAGACTCTACATGTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA
AAGAGATAAAAAATCTTAACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGG
CCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAACTTGCCCA
TGTTCTCAGATATGGTCTTAAAGATGGGTTTCAGCCCAGCAGAAAGCATTATCTTTGCCAGTTGGAGTGTGGAG
ACTTTGGATCGGTTGGTGCCACTGAATGGCTAGAGGGATACCTTTCTGCTCCCTGCATTTAAAGGCTTTCACTTATA
TTAATCTGGATAAAGCGGTTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTG
AGAAAACAAATGCAAAATGTGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAG
TTGAGAAACTCACTTTAGACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTT
TTTGGCAGGACACAGATTATCCTTATTGGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCCTG
AGTTGAACAAAGTGGCAGCAGCTGCAGAGGTGCTGGTCAGTTCTGTGATTAACTAATCCCATGATGTTGAAT
TGAACCTGGACTATGAGAGGTACAACAGCCAAGTCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACA
TAAAGGAAATGGGCCTGAGTTTACAGTGGCTGTATTCTGCTCGTGGAGACTTCTCCGTGCTACTTCCAGACTAA
CAACAGATTTCCGGAATGCTGAGAAAACAGACAGATTTGTCATGAAGAACTCAATGATCGTGTGATGAGAGTGG
AGTATCACTTCTCTCTCCCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTC
ACACGCTGCCAGCTTTACTGGAGAACTTGAAGCTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTCA
GAAACCAGTTGGCTCTAGCTACTTGGACTATTCAGGGAGCTGCAATGCCCTCTCTGGTGACGTTTGGGACATTG
ACAATGAGTTTTAAATGTGATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGA
TCGTGCTAAATTTTCAGTAGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGT
CTTTAGGCAGCAGCTTTTAAATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCATTAAAAAATGT
CCATGATGGAATATTCCCCTATCTCTAGAATTTTAAAGTGCTTTGTAATGGGAACGCTCTTTCTGTTGTTGTT
AATGAAAATGTCAGAAACCAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAA
GTGGTCGCTTACTTTGAGTGATCCTCCAACCTCATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTTCTC
CAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTCTCATTCCTGAAAGAAACAGTTAACTTTTCAGA
AGAGATGGGCTTGTTTTCTTGCCAATGAGGTCTGAAATGGAGGTCTTCTGCTGGATAAAATGAGGTTCAACTGT
TGATTGCAGGAATAAGGCCTTAATATGTTAACCTCAGTGTCATTTATGAAAAGAGGGGACCAGAAGCCAAAGACT
TAGTATATTTTCTTTCTCTGCTCCCTTCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAA
AGCACATTGAAAGAGAACCAGTTTCAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCT
GCCAAATTTTGGCCAAAGTGTTAATCTTAGGGGAGAGCTTTCTGTCCTTTTGGCACTGAGATATTTATTGTTTAT
TTATCAGTGACAGAGTTCATATAAATGGTGTTTTTTTAATAGAAATATAATTATCGGAAGCAGTGCCCTCCATAA
TTATGACAGTTATACTGTCGGTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGT
TTTGCAATTTATGGTCAACACTTAAGGGTTTTAGAAAACAGCCGTGAGCCAAATGTAATTGAATAAAGTTGAAGCT
AAGATTTAGAGATGAATTAATTTAATTAGGGGTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTT
CCTAAATGCAGTGAATTGTGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCTGCAAAATTT

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FIGURE 718B

TATAGCTCAGTTTATCCAAGGTGTAACCTCTAATTCCTTTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAA
CACATTATCGGGAGCAGTGTCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCG
GAGACAGTGATCTCCATATGTTACACTAAGGGTGTAAAGTAATTATCGGGAACAGTGTTCCTATAATTTCTTCA
TGCAATGACATCTTCAAAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTT
AGTTTTAGTTGCAGAAACATTTTGTGGTCATTAAGCATTGGGIGGGTAAATTCAACCACTGTAAAATGAAATTAC
TACAAAATTTGAAATTTAGCTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGAGATAGTA
GCATACATTTATAATGTTTGCTATTGACAAGTCATTTTAACTTTATCACATTATTTGCATGTTACCTCCTATAAA
CTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTAAAGCAGGGGGACTTTGTATAGAAGGTTTGGG
GGCTGTGGGGAAGGAGAGTCCCCTGAAGGTCTGACACGCTGCTGCCTACCCATTGCTGGTGATCAATTAAATGTAGG
TATGAATAAGTTCTGAAGCTCCGTGAGTGAACCATCATTATAAACGTGATGATCAGCTGTTTGTATAGGGCAGTT
GGAAACGGCCTCCTAGGGAAAAGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTC
ACTTGAATGTGTCACTACTCACAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGA
CATTTAGCGTAGCTAAGTGAAAAGGTCTATAGCTGAGATTCCTGGTTCCGGGTGTTACGCACACGTACTTAAATGAA
AGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCATGCATTTGCAGCAGTGAGTCTCTTCAGAA
AACCCTTTTCTACAGTTAGGGTTGAGTTACTTCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAAT
GAAATATCAGACTAGTGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCCTTTTGGAGGTAAA
GGATAAAATGAATGAGTTCTGTCATGATTCACTATTCTAGAACTTGATGACCTTTACTGTGTTAGCTCTTTGAA
TGTTCTTGAAATTTTAGACTTTCTTTGTAAACAAATAATATGTCCTTATCATTGTATAAAAGCTGTTATGTGCAA
CAGTGTGGAGATTCCTTGTCTGATTTAATAAAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 719

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHVMKLAVIDEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTGTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFKIQVKDSAQNSVIIVDKNGRLVYLVENPGGYVAYSKA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFP IVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTI SRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSSEKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAGSGVGTALLKLAQMFSDMVLKDGFPSPRSIIF
ASWSAGDFGSGATEWLEGYLSSLHLKAFTYINLDKAVLGT SNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKLKQNGAFNETLFRNQLALATWT IQGAANALS
GDVWDIDNEF

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FIGURE 720

GTCAC TCGTATAAAAACCTATGCTTTGAAGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAACTTCGGCGGGGTCCTTCCGGGTTTTGTGTGCAATCTGCGCGCGGACCCGCGCGCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTGTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCCGCTTCCGTCGCCACCCTCTCTGGACAGCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCGCCCGGCTCTTAGCCCGACCCTCGCTCCTCC
TCCGCCGGTCCCTCAGCGCGGCTCTGCGCCCGATCTCCTTGCCCGCGCGCCCTCCCGGAGCAGCATGGACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCAGCAGGAGATCTTGTGCGAAAACTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA
AAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGT
CTGTGCGAAAAAGAAATCAGAAATGGAAGTGTTTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGGCGATC
TTTTTGTAAGTATAATGTAATAATCTCCCATTTACTGGAATGATCTATCCCTCCAGTGTCTTTTAACTTAATGT
TCAAGACTTTTCATTGGGCTGGAGGAAACATGCCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCCTTTGCTGCTGCCAGATTGGAAATTCTTTTAGAA
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTACAGAAAAGCCAGG
TCAGCGGACAGTCCGCTCGGAAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTCATTGGCCGCATCTACCTCTACCTCACGAAGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCCATTTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTCTGTTATGACCTCTCCTGTCATGCACGAGCCACCAAAGTCCCCTTGTAG
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTTTCAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCGGCCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCCTCCCACTGAGCCAAAACCAGGAGTTTCATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTGACTTTGACACAGTGAACAGACCCCCC
ACACTGCAACTCTGAGGGACCGTGAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAAGAGACAATCGAGGAATGAGGACAATTTTGACAACCTTTGACCCTTGCCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTTGTGATTACTCCCAGGGACCGTATTTTATCTTCAGTGGC
TGCTGATTTTACCCCAACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 721

MDGAGAEVLAFLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTRQHF IQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVK
DVKNGEFCFRADHLLKAHLQKLMSDKKCSVEKKSEMEVLAQLDNYGQOELADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPAQAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKEGKISPDKLR
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKDAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKTLVVEEVVNVNIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 722

GTCCATGGGGACCCCTCGCCTTCGATGAATATGGGCGCCCTTTTCCTCATCATCAAGGATCAGGACCGCAAGTCCCG
TCTTATGGGACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACT
TGGACCAAATGGGCTTGATAAGATGATGGTGGATAAGGATGGGGATGTGACTGTAACTAATGATGGGGCCACCAT
CTTAAGCATGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAAT
TGGAGATGGAACCACAGGAGTGGTTGTCTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGG
CATTACCCCAATCAGAATAGCCGATGGCTATGAGCAGGCTGCTCGCGTTGCTATTGAACACCTGGACAAGATCAG
CGATAGCGTCTTGTGACATAAAGGACACCGAACCCCTGATTGAGACAGCAAAAACACGCTGGGCTCCAAAGT
GGTCAACAGTTGTACCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCCTACTGTAGCAGATATGGAGCGGAG
AGACGTTGACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGG
CGTGATTGTGGACAAGGATTTCACTCACCCACAGATGCCAAAAAAGTGGAAAGATGCGAAGATTGCAATTCTCAC
ATGTCCATTTGAACCAACCAACCAAAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCT
TCAGAAATACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAGAGACTGGTGCTAACCTAGCAATTTG
TCAGTGGGGCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACCTGCGCTGCGGTTGCTGGGTAGGAGG
ACCTGAAATTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAA
GCTGGGCTTTGCTGGTCTTGTACAGGAGATCTCATTGGGACAACATAAGGATAAAATGCTGGTCATCGAGCAGTG
TAAGAACTCCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCT
TCACGATGCTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGAT
ATCCTGTGCCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGC
CGACGCACTGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGT
CCGAGCCAGACAGGTGAAGGAGATGAACCCTGCTCTTGGCATCGACTGTTGCACAAGGGGACAAATGATATGAA
GCAACAGCATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGAT
TTTGAAGATTGATGACATTCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAACCTATGTAGCAAGATC
CACTTCTGTGATTAAGTAAATGGATGTCTCGTGATGCGTCTACAGTTATTTATTGTTACATCCTTTTCCAGACAC
TGTAGATGCTATAATAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTA
CTATCTCAACTGCTTTTGTATTGATTGATTAAAAGAATCTGTTTAAACAACCTTTATCTTCTCTTCGGGTTTAA
GAAACGTTTATTGTAAACAGTAATTAATGCTGCCTTAATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 723

SMGTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKDGDTVTVNDGATI
LSMMDVDHQIAKLMVELSKSQDDEIGDGTGTVVLAGALLEEAEQLLDRGHPRIADGYEQARVAIEHLDKIS
DSVLVDIKDTEPLIQTAKTTLGSKVVNSCHROMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLIK
VIVDKDFSHPQMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLAIC
QWGFDDDEANHLLQNNLPAVRWVGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIEQC
KNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVYGGGAAEISALAVSQEADKCPTLEQYAMRAFA
DALEVIPMALENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTNDMKQHVETLIGKKQQISLATQMVIRMI
LKIDDIRKPGSEEE

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FIGURE 724

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAACCTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTTCAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTACACATGCCGATCAC
CGGACACAATCCTGCAGAGGACATACGACTCTATTTTCCTACAGTGCGAACTTGTCAATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTTAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTTGCCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 725

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTGPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 726

AATTCGGGGGCCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCAGCCCCGACGAAACCCGGCCAGAGCTTC
CTAGCAGCCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAACTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAACTTTACA
CCTAGCACAGCTGTGGTCCAAGAGATGTCCTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAAGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTTGTTTTAAGCAGAGGCAACCTCTCTCTCTCTCTCTGTTTCGTGAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTTATTTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAAGTTCGAGAGTAAAGGCAAGGAGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCCTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCAATTTGAAAAGCGTTTTTGTGTTTGAATTATGTGGAAAACCTTCAAGTGAACAGAAGGATGG
TGTCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCAGAAAGC
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCAAATGTAGCTTGAAATTTCAATAAACTTTGCTCTGTTTTTCTAAAAATAAAAA

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FIGURE 727

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGS AV

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FIGURE 728

ATGCGGCGGCGGCGGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTGAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAACTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAACTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCAGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAACTGCGTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAGAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACCTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAATCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTTTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTGATTATTTTCGATGAACCCCCAGTAGATAAAACTTACGAAGCTGCT
CTGGAAACAATTGAGACATGAGCAAAGTAGTGATTCCCTCTACAACAAAGCCAAGAACTGACAT**AG**

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FIGURE 729

MAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLLKYYVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVCLCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSIFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRSLA
DFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLIRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDSLYNKAKKLT

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FIGURE 730

ACGTGTATCGCTGCCGTCAAGATCGAGGGGCGCTTTGTCCGTGTTTCGGTGACCGCAGCACTGGGGAACGATCCGC
TCCCAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAAGTACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGCCTTATATCAATGAAAACCTAATTGTTAACACAGATGAAGT
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGGATAAATGGTGATTTCCTT
GCTAACATGGTAGTAGATGCTGTACTTGCTATTAAATACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAAC
TCTGTTAATATTTTGAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAATTGCTTGCTTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAGGAGAGAAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCACTGGTGAATTTGAT
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAAATGATTTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACCTTTGTGTAGTGAAGAGAGTTTTGGAGTCAAAATCTGTGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAAACATATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCAGGTTAACCCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAATCCTTCGGATTAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTCTTTTATTATAACAATGTTAAA
TGCAATGCTTGTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAACTTGGGTTTTTGTGAT
GTAGGAAATGGTTTCCATCTGTACTTTGGTCCTCTGATTTTCAGATATTGCAACCTAGTACTTTATTAGTTTAAAA
AGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCCACCCCAA
TGCAACAGGGCTGCAACACCACGACTTCTGCCATTCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

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FIGURE 731

MEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSLGPVGLDKMLVDDIGDVTITNDGATILKLLEVEHPAAKVL
CELADLQDKEVGDTTSVVIIAAELLKNADELVKQKIHTSVISGYRLACKEAVRYINENLIVNTDELGRDCLIN
AAKTSMSKKIIGINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESMLISGYALNCVVGSGQM
PKRIVNAKIACLDFSLQKTKMKLGVQVVIDPEKLDQIRQRES DITKERIQKILATGANVILTTGGIDDMCLKYF
VEAGAMAVRRVLKRD LKRIAKASGATILSTLANLEGEETFEAAMLGQAEEVVQERICDDELILIKNTKARTSASI
ILRGANDFMCDEMERSLHDALCVVKRVLESKSVVPGGGAVEAALSIYLENYATSMGSREQLAIAEFARSLVIPN
TLAVNAAQDSTD LVAKLRAFHNEAQVNPERKNLKWIGLDLSNGKPRDNKQAGVFEPTIVKVKSLKFATEAAITIL
RIDDLIK LHP EILRIKHGSYEDAVHSGALND

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FIGURE 732

GCTTTCTTTCCGTCGCAGAGAGCATCGGCCGGCGACCGTTCCGGCGGCCATTGCGAAAACCTCCCCACGGCTACT
GCGTCCACGTGGCGGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCT
TCCCGGGCTAATCCATGCGCGGTGGAGGCTGCTGACGCAGGTCGGCGCCAGGTGCTGGGTGCGACTCGGGGACG
GCCTGGGTGCTGCCCTGGGCCCCGGGAACAGAACACACATCTGGCTTTTGTAGAGGTCTTCATGGAAAGAGTG
GTACATGGTGGGATGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAG
CCCAATTAGCAAGTAACTGTGTCTCTGAAAGATGAACCATGGCCTATACATCCTTGGGAACCAGGTTCCCTTA
GAGTTGGTCTTATTGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAGCATGTGGTCACAT
TACTTCAGGTACAAGACTGTATGTCTTAAATATACGTCAAAGGAAAACCTGTAATGGAAAAATGGCAACCCTGT
CTGTAGGAGGAAAACTGTATCACGTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAACCTGGATTGC
CGCCGAAACAGACAGTTAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTG
CTCACTTTTCGTCCAGGACAGTATGTGGATGTCACAGCCAAAACCTATTGGTAAAGGTTTTCAAGGTGTCATGAAAA
GATGGGGATTAAAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTG
GTGATATTGGCAGAGTCTGGCCTGGAACTAAAATGCCTGGAAAAATGGGAAACATATACAGGACAGAATATGGAC
TGAAAGTGTGGAGAATAAACACAAAGCACAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCT
TAGTAAAGGTCAAAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCTTACATATTTTC
CTGATGGAGATGAAGAGGAAGTCCAGAAAGATTGTATGATGAAAACGTGTGTAGCCCGGTGCGCCTTCTATTA
CATTTGCCTAACATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATA
ACCACCAGAAATCATACTCTCCTTTCTTAGTCAACAACAAAATCACACATGTATCTTTGTCAAGGGCATAAATAT
ATCATTCATACCCCCATTAAATTTTGTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTGCG
TGAAATTGGTGTGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCA
AGTTATCTTAAGATGTCTGTAAATTTAACTTTTATTAAAGTTTTGTCAATCTTTGTGAAATAGTGGTTGTGGAAC
AGTAGAAAACCATATGGGGACTATAGTGCAACCTATTTGGGTAAAGAAACCATTTGCTAAATGGAGAAAGTAAA
TAGATTTTATTTAAATTTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATCGGT
CCTGTTTTAAAAA

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FIGURE 733

MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWDEHLSEENVPF IKQLVSD EDKAQLAS
KLCPLKDEFWPIHPWEPGSFRVGLIALKLGMMPLWTKDGQKHVV TLLQVQDCHVLKYTSKENCNGKMATLSVG GK
TVSRFRKATSILEFYRELGLPPKQTVKIFNITDNAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGV MKRWGFK
GQPATHGQTKTHRRPGAVATGDIGRVWPGTKMPGKMGN IYRTEYGLKVWRINTKHNI IYVNGSVPGHKNC LVKVK
DSKLPAYKDLGKNLPFPTYFPDGD EEELPEDLYDENVCQPGAPSITFA

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FIGURE 734A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCAGCGGGGGCGGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGAGGCTTCCCCTCGTTTGGCGGCGCGGGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCCATTCTGCCCCGGCCCCGCGCGGAGGGGCGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCGAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTTCCACTCCAGACCCACCCCTG
GGCGGAACCTCTCGGGCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCCACAGCATGATGGGGCCCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTGCGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCCAGCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCCGGGGCCCCAGATGTCTTCCGGGCCAGGAGTGGCCCGCTGGATGGTGTGAC
CCCCAGGCTTGGGGCAGCAGAACCAGGGGCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCTTACAAGATGCTGGCCAGGGGGCAGCCCTCCCGACCACTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCPCCGGCCCGGGTCCCGGCCCGCACCTCCAAATTACAGCAGGCCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCTCCCAAGCCC
TGCCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCCTCGCCCGTATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCTCGACCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTACG
GAACTTGAAACCTTCCCGGGTCCCTGGCCGGGGATTGCGAACCAGCGACCATGAGCTCAAGGCCCTCAGG
CTGCTGAACCTTCCAGAGCAGCTGCGCCAGGAGGTGGTGGTGTGATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGCAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAAGGCTGCCAGGTGCGCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCAGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACAGTGGCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGTCTATCAGTACCTCATGGAGCAAAACGCATCAATGGGCCCTTCCCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCGCCCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTCATCATCCGGCGTCTCCACAAAGTGTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGCCCAGTTGGCCGAAAAGGTGGAGTACGTCAATGCGACATGTCTGCGCTGCAGCGAGTGTCTTAC
CGCCACATGCAGGCCAAGGGCGTGCTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGGCGCACCAAG
ACCCTGATGAACACCATCATGCAGCTCGGGAAGATCTGCAACACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCAAACTCCGAGCAACCAACCACAAAGTGTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 734B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGAGTGGCAGCTTCGCCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCTCATGGAGGAGGACGAGCTCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTTCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCGTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCGGCTCCTCCACCCCGACCACCAGCACCCGAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCCTGCCGAGAACTCTCCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTGAGTCTAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTGATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGAGTCCGTCTTACC
AGCGTGGCGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCGCGGCGGCGGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AAACTGTATAAACAAGAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTTGA
TGCATGTGCGTCACCGTCCACTCCTCTACTGTATTTATTGGACAGGTGAGACTCGCCGGGGGCGCGGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAAACCAACAACAAAACGCA

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FIGURE 735

MSTDPPLGGTTPRPGSPGPGSPGAMLGPSGPGSPGSAHSMMPSPGPPSAGHP IPTQGGGYPQDNMHQMHPK
MESMHEKGMSSDDPRYNQMKMGMRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSVPASPSSGPMSSSGPG
GAPLDGADPQALGQQNRGPTFFNQQLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMGPMQQQMP TLPPPSV
SATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPQTQSPGQPAQAPMVP LHQKQSRI TP IQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNFRQLRQEVVVCMRRTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLN SILQHAKDFKEYHRSVTGKIQLTKAVATYHANTEREQKKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLT ELVRQHKAQVAKEKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGT DAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDD EYGVSQLARGLQSYAVAHAVTERV DKSALMV
NGVLKQYQIKGLEWLVS LYNNLNGLADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGSAPAARRAFVPLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMI VDEGHRMKNHHCKLTQV LNT
YVAPRRLLLTGTPLQNKLP ELWALLN FLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAAGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRI LPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQONEVR
VLR LCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDES RHCSTGSGSASFAHTA
PPPAGVNPDL EEPPLKEEDEVPDDET VNQMIA RHEEEFDLFMRMDLDRREEARNPKRKPRLMEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAI EEGTLEEIEEEV RQKKS SRKRK RDSAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLSPNPPNLTKMKKIVDAVIKYKDS SSGRQLSEVF IQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNLEKDVMLLCQNAQT FNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKV KIKLGRKEKAQDR LKGGRRRPSRGSRAKPVVSDDDSEEQEEDRSGSGSEED

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FIGURE 736

ATGGCGCTTGCCAGCGTGTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTCGTGCA
GATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCGCGCCAGGCTGGGGTGTCCCAGAA
GAGCCAGGAATCGAAATGCTTCATGGAACAACCACCCTGGCCITCAAGTTCCGCCATGGAGTCATAGTTGCAGCT
GACTCCAGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACGGTGAAGAAGGTGATAGAGATCAACCCATACCTG
CTAGGCACCATGGCTGGGGGCGCAGCGGATTGCAGCTTCTGGGAACGGCTGTTGGCTCGGCAATGTCGAATCTAT
GAGCTTCGAAATAAGGAACGCATCTCTGTAGCAGCTGCCTCCAAACTGCTTGCCAACATGGTGTATCAGTACAAA
GGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAGAGGCCCTGGCCTCTACTACGTGGACAGT
GAAGGGAACCGGATTTTCAGGGGCCACCTTCTCTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGG
GGCTATTCCATGACCTGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGA
GATGCCTACTCAGGAGGTGCAGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAAT
GTGGCTGATCTACATGAGAAGTATAGTGGCTCTACCCCCTGA

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FIGURE 737

MALASVLERPLPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTTLAFKFRHGVIVAA
DSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERISVAAASKLLANMVYQYK
GMGLSMGTMICGWDKRGPGLYYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYR
DAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

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FIGURE 738A

TGCTAAGTAACTTGTGTTTATTGTGTCAGACATCTAGTGAGTCGCAGAGCCAGGGAAGTACCACGGGCATTTTCACCC
CATTACCCTTCCAGCTTATTGCCGACTGCTCCCGAAGGGAGCGAAAAGGACAGGCAAAGGGTTTCACCAAACCCCT
TTGTAATGGGAGATTCTTGCCCTTCTTACCTTTCTCACGTTTGCTTCTGCCAGAATGCTTCCCGCACTTTCC
CCAGAACCAAGTTCTCCTAATCATCTTTCAAGATCCCTTTCCCTCAACCACAGATGAGCCGTGCCTATTCTCC
TTCAAATGACTCCCTATGGCTTCTAGTTGGTAGTCTTTTATTTACCACCTCATAGTCCTTTTATTTATATCCCAT
AAATGATCGTCCGGCCCCGCACCGTGGGACCAGGACGCTGCCTCGACCATGGCGGTCTCCTGGAAACAGGCTGCT
TTGAGCCGAAACTGGTGACCGTTTCCCAACCCCGTCCAGGAGTCCGACGCCTCTTTTCTCCAGGCCAACTTCAAG
TGAGGTGTATCAACTCTATCCGCACAAATTTCTTGCCACGAGAGCAGAAGATTATGATCTCTGATGCTGCCTTAG
GGCTGAAGACACTCCCAACTCGGCGACGCTTAGCAATCATCGACTTCCTCCTCTCTTGGCTGCCTCGGAGATCC
TGTTCCGGGGCAGAGGTCTCCCCGCCCCGCCCCCTCGTCTCCTCCAAGATGGCGAGCGGGCGGAGCGGGGGGGTGT
CAGTACCTGCGCTGTGGAGTGAAGTGAACCGGTATGGCCAGAACGGCGACTTCACGCGCGCTCTCAAGACCGTCA
ATAAGATACTACAGATCAACAAAGATGACGTAAGTGCCTGCAATTGTAAAGTGGTATGCCTTATCCAGAATGGAA
GTTTCAAGGAAGCTTTGAATGTCATCAATACTCACACCAAAGTGTAGCCAATAACTCTCTCCTTTGAAAAGG
CATATTGCGAGTACAGGCTGAACAGAATTGAGAATGCCTTGAAGACAATAGAAAAGTGCCAACCCAGCAGACAGACA
AACTGAAGGAGCTTTATGGACAAGTGTATACCGTTTGGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATC
TCGTCCGAAACTCCCAAGATGATTATGATGAGGAGAGGAAAAACAACTTTTCAGCAGTTGTTGCAGCTCAAAGCA
ATTGGGAAAAAGTGGTTCCAGAGAACCTGGGCCTCCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTG
CACTGATAGGCCAAGGCCAGCTGAACCAGGCCATGAAAATCCTACAAAAGCTGAAGATCTTTGCCGCCGTTTCAT
TATCAGAAGACACTGATGGGACTGAGGAAGACCCACAGGCAGAAGTGGCCATCATTGATGGTCAGATGGCTTATA
TTCTGCAGCTTCAGGGTCGAACAGAGGAGGCTTTGCAACTTTACAATCAAATAATAAACTAAAACCAACAGATG
TGGGATTACTAGCTGTAATTGCAAATAACATCATTACCATTAAACAAGGACCAAAATGTCTTTGACTCCAAGAAGA
AAGTGAAATTAACCAATGCGGAAGGAGTAGAGTTAAGCTTTCCAAGAAACAACACTACAAGCTATAGAATTTAACA
AAGCTTTACTTGCTATGTACACAAACAGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTC
CCGAGCATCTCTTACCTGTGTTAATCCAAGCTGCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGC
TGCTTCAGGAATTTTCAGATCAGCATCCAGAAAATGCAGCTGAAATTAAGCTGACCATGGCAGCTTGAAAATTT
CTCAAGGTAATATTCTAAAGCATGTCTAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTAT
CTGCATTAGTTACCATGTATAGCCATGAAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGT
GGTATCAAAACCATCAGCCAAAATCTCCTGCTCATTGTCTTGATAAGAGAAGCTGCAAACCTCAAACCTCAAAT
ATGGGCGGAAGAAGGAGGCAATTAGTGACCTACAACAGCTGTGGAACAAAATCCAAAAGATATTACACCCCTGG
CACAGCTTATTTCTGCTTACTCACTTGTAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAG
ATAGTATGTCTCTAAAAGTAGATGTTGAGGCTCTTGAAAATTTGCTGGTGCTACATACATTCCGAAGAAGGGTG
GAAAAGTTACTGGAGATAGTCAACCAAAGGAACAAGGACAGGGAGATTTGAAAAGAAGAAAAAGAAAAGAAGG
GAAAATTGCCATAAGAATTATGACCCAAAAGTTACCCAGATCCAGAAAGATGGCTGCCAATGCGAGAAGCTTTCT
ACTACCGGGGAAGAAAGAAGGGTAAAAAGAAGGATCAGATTGGAAAAGGGACCCAGGGAGCAACTGCAGGAGCTT
CATCTGAAGTGGATGCCAGTAAACTGTGAGCAGCCACCCACCTCCCAAGACCTGGCAGTGCTGCAACAGTAT
CTGCCTCTACAAGTAACATCATACCCCAAGACACCAGAAACCTGCAGGGGGCTCCAGCAACAAAAAGAAACAGC
AACAGAAAAAGAAGAAAGGTGGAAGGTTGGCTGGTGAATGAGAATATTCTTGTTGCAGGCTGTTTTTAACTAGT
GTCAGTGACACTAGGAATATAATAAAGGTAACACAGCAAGAAGCACAGAACTACTCCCTCTTCATCTCCATATT
TCATAATTTCTTGTTTCAATAGGGAAACATCTTCTCAAAGTCTGCCTAGTGAGATATGGCTACTGGTTGC
CTCATAGCTTTGTACAGATTATGAGGACTGAAAATAATTGGGCATTTACCCATCTTGGTATCTGTTGTATCCTTT
ATCTGTGTGTGCTGATTTGATCTTTTTTTCAGTTTTCACATACCTTATCTAAGGTTTCCCAGGATTTAAACAGAAAC
TACTTCTATGATTTTCAGCTGGAGTCTGAAGATACTTGTCTTCTGTTCAAGTCCCACTTTAAATTATGTCTTAGGAG
ACTGAAAGTGGAACTTCTGAGCATTCTTAAATATCTGCTTAGAAATATCATGTGATAAAGAGGGACCTTCTTAA
TACACTGATGTTCTTCACTAAATGGATGGCCACAAGAAAAATAAAGTAAATGTCTTAAATAATTTAACATAAAT
TTTCTGTCAITGTGATACTGGAATATGGGATACTTTTCATGTTTATATATATATATATATATATATATATACGA
TATATATATATATATAAANTGAAATATATATATATATGGCTCCTTTGTGCCCATGTCTTTTCAGATTATGGTAG
CATGCTGATACAGCACCATGAAAGAACTCAAGGAAAATATATCAATGTAAGAAGTTCACTCTTAGACCCAGTGTT
CTGAGGTCACATGGGTTTGGACTGTCTCAATCAGAAAGATTAATGACTGTTATCAAGAACATGAACATTGGCTTC

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FIGURE 738B

CTCCATAGAGAAGAAATCAGTATCTGAGTTGCATACCAGGCAGTATTAAAATCTAACAGGTCTGTTGGCCCAT
GATAGATACTCAAATGGTGTCTCCTTCTGGTTATGGATTTTGACCATTGATTACCTTTCTCAATGTAATGAAGTA
TTTTACAGTCAATTTGTGGTGTAAATGTTGCTCTTGCTTTTCCTTGCTTACAACTACTTTACATTGAACAGCT
GTGAGACAGACATATTGAGATGCCTGCCCTTGTTAGTATTCAATTTATGCTGCCCCAAGATATCATTAAATTTAGA
CTTAACAAGTATTTCTTGTGATTATATTACTCTGTCCTTGTTAATAAAGTGCTGCTGTTTGACTCTGAACAT
ACTACCAAACCTTCTTCAAAGAGTTTTTTATGAAAGACTTTCTCCTTTACAAGAAAGAAATGGGGTGCTGCCTT
TCTGTTTAGTAAAAGCAGAATTTGCAGTGGCATCTAAAGAGATCTTTTTTAAATAAAAATTATGTATTGTGGCAT
AATCCTTTTTTTGAGCTCTACAGAGAACAGTCTTTTGGTAATAGTGGCAGGTATTTATCCTTCTGAATATATAC
CCCATTATAGGAATAACTGTTACTTATTTAGGATTCCATCATTGAAAATTTTGACCCAAGGCACAGCAGTGAAAT
TTATAGTTCTCAATTTAGTTGTCATTATTGACAGGCATTGGTATTATTAGTCATTGCTAAGCAACTAAAACCTCA
TCAGTTCAAATAAGTTTTAATTGTCAAATGAAGTATAAACACATGAACTTTCTAGAAATATTTCTCTTTTGGAT
AGGTCTTTAACCAGTTCATATATATACTTTGTCAAATATATGGATGTGTATGTGTACATTTATAAGAACCAGTAT
GGATACATCCATTCAGTGTGGTACATTTTAAATAAAAATATTTTAGCAGTGAATATGGAAA

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FIGURE 739

MIVRPRTVGPGRCLDHGGLLETGCFEPKLVTVSQPRPGVRRLFSPGQLQVRCINSIRTNFLPREQKIMISDAALG
LKTLPTRRLAIIDFLLLLAASEILFRGRGLPAPPLVSSKMASGGSGGVSPALWSEVNRYGQNGDFTRALKTVN
KILQINKDDVTALHCKVVCLIQNGSFKEALNVINTHTKVLANNLSFEKAYCEYRLNRIENALKTIESANQQTDK
LKELYGQVLYRLERYDECLAVYRDLVRNSQDDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCYNTACA
LIGQGQLNQAMKILQKAEDLCRRSLSEDTDGTEEDPQAEIAIHGMAYIILQQRTEEALQLYNQIIKCLKPTDV
GLLAVIANNIITINKDQNVFDSKKKVKLTAEGVEFKLSKKQLQAIEFNKALLAMYTNAEQCRKISASLQSQSP
EHLLPVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGNISKACLILRSIEELKHKPGMVS
ALVTMYSHEEDIDSAIEVFTQAIQWYQNHQPKSPAHLSLIREAANFKLKYGRKKEAISDLQQLWKQNPDKDIHTLA
QLISAYSLVDPEKAKALSKHLPSSDSMSLKVDEALENSAGATYIRKKGGKVTGDSQPKEQGQDLKKKKKKKKG
KLPKNYDPKVTPDPERWLPMRERSYYRGRKKGKKKDQIGKGTQGATAGASSELDASKTVSSPPTSPRPGSAATVS
ASTSNIIPPRHQKPAGAPATKKKQQQKKKKGGKGGW

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FIGURE 740

CGGTGCCTGGTGCGGGAGCTACGGGGCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCTCGTGGTT
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTACCAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTGAGAGGAAAGACTGTGCAGTAATTGTCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
ATGGCTATGAGATTCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAACTGAGTCAACCAGCTTCCTTG
AAAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAACCTGCAATTACATGCCTGTCTACTG
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
TTACAGAAGCAGAGATTGATGCTCACCTTGTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA
TCCGTGATGCCACTTACCTGTGTGTTGGTAACAACAAACAAACATCATGGAGGTCCTGGATTGAAAAAGGAGC
CTCTCCCACTCCTCCTACCACGAAGTGGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGGAAAAAAAAAAAA
AAAA

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FIGURE 741

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPO
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLVALAERD

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FIGURE 742

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCACTTCGAATTGGAGCT
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAAGAACACACCTGTCTATGTGTCTCACCACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGTCCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCTGT
GCACACAACCCAACCTGGGATTGACCCAACCTCCGGAGCAGTGGAAGCAGATTGCTTCTGTCATGAAGCACC GGTTT
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCCATTTCGC
TATTTTGTGCTGTAAGGCTTCGAGTTCTTGTGCCCCAGTCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAGAAGCTGAGAGCATCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACTCAGGGCACGACTA
GAAGCCCTCAAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTAGCTTCACTGGGTTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCGAATCAACGTGAGTGGC
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAGTAGTTCTCTGTCTGTGTGTTCCCTGCCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCCTCTCACTAAAAAGGAGTGTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCTAGTCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACACGTACATATTTAACTGAAACAAGTTTACCACACAGTATTTACTCGTGATGTGCGTAGTGCATTCTG
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 743

MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNNAVFSA
AGFKDIRSYRYWDAEKRGDLQGFLNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNPelfEewTGNVKTmadrILtMRSELrARLEALKTPGTWNHITDQIGMFsFTGLNPKQVEYLV
NEKHIYLLPSGRINVSGLTtKNLDYVATSIHEAVTKIQ

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FIGURE 744

GCACGAGCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCT
CTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCG
CGTGGACACCGCAAGCCCCCTCAGTAGCCTCGGCCAAGAGGCCTGCTTTCCACTCGCTAGCCCCGCGGGGTCCG
TGTCCTGTCTCGGTGGCCGGACCCGGGCCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACC
TGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACC
GCTGCACGCCGGCTTGCAATTTCTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTT
CTAATGCAAAGAACACAGTCCAAGGATTTAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAG
AAAAATCTAACCTTGCAATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGG
AAGAGCGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTT
TTAAGAAGCCTGTAGTTGACTGTGTGTTTCGGTTCCTTGTTCTATACTGATGCAGAAAGACGATCAGTGATGG
ATGCAACACAGATTGCTGGTCTTAATTGCTTGGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGCAATATGGAA
TCTATAAGCAGGATCTTCTGCTTAGAAGAGAAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTT
ATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAG
GTAGAAAAATGTGAAGTGTTAGTAAATCACTTCTGTGAAGAATTGGGAAGAAATACAAGCTAGACATTAAAGT
CCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAATGCTTCAG
ATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGATCTGGAACATATGAATAGAGGCAAATTTCTGG
AGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAAGTTTTTGGAAACAAACCAAGTTAAAGAAAG
AAGATATTTATGCAAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTT
TCGGTAAAGAACCTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCT
TATCCGCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATT
CTCCAGCTGAAGAAGGTCAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTA
CATTTTATAGAAAGGAACCTTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTG
CTATAGCTCAGTTTTTCACTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAAAGTTC
GAGTAAATGTCCATGGCATTTTTCACTGTGTCCAGTGCATCTTTAGTGGAGGTTTCAAGTCTGAGGAAAATGAGG
AGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGTTGAAG
AGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGG
ATAAAAAGATGGACCAACCAACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGA
ATCAGCTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGG
ATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGAGGGAATATGTGTATGAAATGAGAGACAAGCTTA
GTGGTGAATATGAGAAGTTGTGAGTGAAGATGGTCTGAACAGTTTTACTTTGAAACTGGAAGATACTGAAAATT
GGTTGTATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAATCTAGGTC
AACCTATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTTTGAAGAAGTGGGAAACAGATCCAAC
AGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAA
AGGTAGAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAGCAGAGTTTGA
CCATGGATCCAGTTGTCAAGTCAAAGAGATTGAAGCTAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAA
TTTCAAAGCCCCAAACCAAGTGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAAATGGACCAGTGGATG
GACAAGGAGACAACCCAGGCCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTTCAGACAAGA
AGCTTCCTGAAATGGACATTGATTGATTCCAACACTTGTTCCTATTAAACAGACTATTATAAA

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FIGURE 745

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIKVTYMEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFYTD
AERRSVMDATQIAGLNCRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLVLAT
AFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYDPPIAQFSVQKVTPQSDGSSSKVKVKVRNVHGFVSSASLVEVHKSEENEEPMTDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDKNAVREYVYEMRDKLSGEYEKFFVSEDGRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERPKLFEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSDSKDKLPMDID

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FIGURE 746

GCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGA
ACTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCG
GACCTCCAGGAGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCCTGG
GCGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAG
TCCGAGAGCTATTTCCCGACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAA
CATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAAGACATT
CAGTGAAGCTTGCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTA
TCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCATTT
CTGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTGGGATCTTCT
GCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAACTAC
AAATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGG
GAGTCCTCTGGGAGAAGTGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCT
GAAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTG
GGGAAGAACCCTCTGAAAAGAGAAGATAAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTACAACTTGAG
GAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCC
CCGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTTCCATCCT
GGTTTCCAATAAACCAGGAATTTGAAAGTTGTATTAGTATTATTGGAAAAACAATTGGCTTCAACATGA
GAAAGCTCCTACAGAAGAAGGAAAAAAGAGCTGCTGTTCCCTAAGTAACGCGAACCCTCGCTGCTGGAGCGGCA
CTGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAA
GATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTGTACCTATGGGATTGGACAGGACTGCAGTTG
GCTCTGGACCTGCATTAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTTCTAAAACCTTA
TATCAGTTTATTGGATGTGGTTTTTCACATTTAAGATAATTATGGCTCTTTTCTAAAAAATAAAATATCTTTCT

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FIGURE 747

MMLKGITRLISRIHKLDPGRFLHMGTOARQSIAAHLNQVPVESPRASRTNENDPAKHGDQHEGQHYNISPQDL
ETVFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLCHVIHFCQDW
LILHIPDAHLWVKNCRDLLQSSYNKQRFDOLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRETEKGSPLGEV
VEQGITRVRNATDAVGIVLKEKQSSLGMFHLLVAVDGINALWGRITTLKREDKSPIAPEELALVHNLKMMKND
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKFESCIQYYLENNWLQHEKAPTEE
GKKELLFLSNANPSLLERHCAYL

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FIGURE 748

ATGACGAAGAACGAGAAGAAGTCCCTCAACCAGAGCCTGGCCGAGTGGAAGCTCTTCATCTACAACCCGACCACC
GGAGAATTCCTGGGGCGCACCGCCAAGAGCTGGGGTTTGATCTTGCTCTTCTACCTAGTTTTTTATGGGTTCCTG
GCTGCACTCTTCTCATTACGATGTGGGTTATGCTTCAGACTCTCAACGATGAGGTTCCAAAATACCGTGACCAG
ATTCTAGCCCAGGACTCATGGTTTTTCCAAAACAGTGACCGCATTGGAATATACATTAGTAGGTCTGTATCCA
ACTTCGTATGCAGGGTACATTGAAGACCTTAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCCTC
ACAGTCTGTCTGTATGGAGCACTTTTTGAACAGAAGGGTCCAGTTTATGTTGCATGTCAGTTTCTATTTCATTA
CTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCCTTGATTCTTGTGAAAATG
AACAGAATAATTGGATTAAAGCCTGAAGGAGTGCCAAGGATAGATTGTGTTTCAAAGAATGAAGATATACCAAAT
GTAGCAGTTTATCCTCATAATGGAATGATAGACTTAAAATATTTCCCATATTATGGGAAAAAACTGCATGTTGGG
TATCTACAGCCATTGGTTGCTGTTTCAGGTCAGCTTTGCTCCTAACACACTGGGAAAGAAGTAACAGTTGAGTGC
AAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACGAGTTATGTTCAAAATC
ACAGCACGTGCATTAGTATGAGTAGGATATCTCCACAGAGTAAATGTTGTGTTGTCTGTCTTCATTTTGTAAACAGC
TGGACCTTCCATTCTAGAAATTATGAGACCACCTTGGAGAAAGGTGTGTGGTACATGACATTGGGTTACATCATAA
CGTGCTTCCAGATCATAGTGTTCAGTGTCTCTGAAGTAACTGCCTGTTGCCTCTGCTGCCCTTTGAACCAAGTGT
ACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCCAAACATGTAGGATGGGGGTCTTGTCTCTTTTTATGTG
GTTTAATTGCCAAGTGCTCTAAAGCTTAATATGCCGTGCTATGTAAATATTTTATGGATATAACAACCTGTCATATT
TTGATGTCAACAGAGTTTTAGGGATAAAATGGTACCCGGCCAACATCAAGTGACTTTATAGCTGCAAGAAATGTG
GTATGTGGAGAAGTTCTGTATGTGAGGAAGGAAAAAAGAAAAATAAAAGTGTGTTTGAAAAATATTATCTTGGGT
TCTTTGTAAATTTATTTTTTACATGCTGAATTAGCCTCGATCTTTTGTATTAAGAGCACAACTTTTTTTGTGTA
AAACATGTAAAAAATAAACTGGGATTAATTTTTAGTGTGGAAGTGCCTCTTATTTTAGGCTGTAGATAAAATA
GCATTTTATAGTTAGCCAGTGTGACTATGCACCTAATTTTTATGAGATTAAATTCATAAGACTTAATTTGTACA
ATAGTTTGTGAATATCTTGTTACTGCTTTTATTTAGCAGACTGTGGACTGTAATAAAGTATATAAATTGTGAAA
TATAAAAACTTGGAACCTATTCAAAGCTT

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FIGURE 749

MTKNEKKSLNQSLAEWKLFYINPTTGEFLGRTAKSWGLILLFYLVFYGFLAALFSFTMWVMLQTLNDEVPKYRDQ
IPSPGLMVFPKPVTALEYTFSRSDPTSYAGYIEDLKFLKPYTLEEQKNLTVCPDGALFEQKGPVYVACQFPISL
LQACSGMNDPDFGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYFPYYGKKLHVG
YLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

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FIGURE 750

GAATTCGCTTTGGATCCATTTCCATCGGTCCTTACAGCCGCTCGTCAGACTCCAGCAGCCAAGATGGTGAAGCAG
ATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC
ACGTGGTGTGGGCCCTTGCAAATGATCAACCCCTTTCTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTC
CTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCACGCCAACATTCCAGTTT
TTTAAGAAGGGACAAAAGGTGGGTGAATTTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAAATGAATTA
GTC**TAA**TATGTTTTCTGAAAACATAACCAGCCATTGGCTATTTAACTTGTATTTTTTTATTACAAAATATAA
ATATGAAGACATAACCAGTTGCCATCTGCGTGACAATAAACATTATGCTAA

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FIGURE 751

MVKQIESKTAFQEALDAAGDKLVVVD¹FSATWCGPCKMINPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCTP
TFQFFKKGQKVGEFSGANKEKLEATINELV

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FIGURE 752

GGGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATAT
GGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTTCCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCTGGATACTCTTACACAGC
CGCCAATAAGAACAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACAT
CCCTGGAACAAAAATGATCTTTGTTCGGCATTAAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
AGCTACTAATGAGTAAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ACCATCCTTTAATAGATCTCATACACCAGAATTCAGATCATGAATGACTGACAGAATATTTTGTGGGCAGTCCT
GATTTAAACTAAGACTGGCTTGTGTTAAATGAATATGTTTCAGTTTTTGAATTTTAAAGTAACTCCAATTCAG
TAAATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
GGTGAGTGCCATCTTAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATAACTGGTTATGTGAATATATT
TAAATACTGGGGAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTCAATGTTTCATTG
CCTCTTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAACTATGCCAATCTAAT
TATAATTCCCTGTATTTAAATGGTTTCTTTTACTTATTGAAAGGCATTTAGTGTGGTTTATGTGTAATATTAA
AGATTATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 753

MGDVEKGKKIFIMKCSQYHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGI IWGEDTLMEYLENPKKY
IPGTKMIFVGIKKKEERADLIAYLKKATNE

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FIGURE 754

CCGGCGGGCGCTCAGGTCGCGGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTTCGCAGTCGTTTCC
GCGATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGCCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGGCGGGCCCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTCTTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCAGGAAAGTT
GCCGGGGAAAAATCACGGTCACCTTTCAACATTAAACAACAGCATCCACCAACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAAGTACATCAACTCCCAATTTTCGTGGTTGAAGTTATAAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCTAATATCATGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTTATTATCATTTTTTCTGTACAAATCTATTATTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCCGCTGAGTCTTCTAGAAGTACCTGCTGGGTTCTCAGT
TCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTACCAATGCTGTCTTCT
CTTCTCCAATCAAGAAATAATAATCCCTCGAGTTACAAAACAAAAAAAAAAAAA

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FIGURE 755

MLPLLRCVPRVLGSSVAGLRAAAPASPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 756

TGGACTTGGATCCGAGGCAGACGAGGAAGCTGAGAAAAACCTGGCGTTGACCCCGTGGACCTGGGCGCCCCGGGA
AGGTCCAGCGCTTGGTCCAGGCAGGCGGGGATGTGCGGTGACCACCTGGTCCTGAAAAGTCCAGCCCCGAATCT
CCCTCCCTCCTAGACCTGGAGGCCTGGAAACAGCCAGCCGCCACGGACGCCAGAGCCGGGAACCTGACGGCACT
TAGCTGCTGACAAACAACCTGCTCCGTGGACGCCTGAAACACCAGTCTTTGGGGCCAGTGCCTCAGTTTCAATCC
AGGTAACTTTTAAATGAAACTTGCCTAAAAATCTTAGGTACATACAGAAAGAGACTCCAATCGACAAGAAGCTGGA
AAAGAATGATGTTGTCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTATGTTGGCACCATTTC
CCGATCAGCTGGATCCTGGAACCTTGGATTGTGATATGTTGGCATGTTCTTAGTGACGCAGACAGATTCCAGGTGG
ATCTGCAGAATGGCAGCAGTGTGAAACCTCGAGCCGATGTGGCCTTTTCATTTCAATCCTCGTTTCAAAGGGCCG
GCTGCATTGTTTGAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAA
GAGAAAAGTCTTTTGGATCGTGATTATGGTGCTAAAGGACAAATTCCAGGTGGCTGTAAATGGAAAACATACTC
TGCTCTATGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTATGGCAAAGTGAATATTCACTCAA
TTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAGTACAGAGATAAGTAGAGAAA
ATGTTCCAAAGTCTGGCAGCCCCAGCTTCAGACTGTCTCTCCCTCCTGGGATTTACAGGGTCATGGCTCTGAAA
CATTCTGTAGTGTCTTTGGACACGAGTTTTCTGGAGATCGCTTTCTGCAGGCCTATTGGTCTGACTGTGGCTT
CTTTTCAGAGCCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAAGTGTGCTCGTTAAAGGAG
AAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTTGA
ACCCACGCCTGAATATTAAAGCATTTGTAAGAAATCTTTCTTCAGGAGTCTGGGGAGAAGAAGAGAGAAATA
TTACCTCTTTCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTACTGTGATGTTAGAGAATTCAGGTTG
CAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTA
ATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAACCAAATACAGA
ATGGCTTCTGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCATTCTATTGTTTATATTGTTAAATGAGCTT
GTGCACCATTAGATCCTGCTGGGTGTTCTCAGTCCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAA
ACTGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTGACTCTTCAAGAA
GCCATTCAACAAGTATTTATGGAGTACCTACTATAATACAGTAGCTAACATGTATTGAGCACAGATTTTTTTTGG
TAAACTGTGAGGAGCTAGGATATATACTTGGTGAAACAAACCAGTATGTTCCCTGTTCTCTTGGACTTCGACTC
TTCTGTGCTCTATTGCTGCGCACTGCTTTTTCTACAGGCATTACATCAACTCCTAAGGGGTCTCTGGGATTAGT
TAAGCAGCTATTAAATCACCCGAAGACACTAATTTACAGAAGACACAACCTCCTTCCCCAGTGATCACTGTCATAA
CCAGTGCTCTACCGTATCCCATCACTGAGGACTGATGTTGACTGACATCAATTTATCGTAATAACATGTGGCTC
TATTAGCTGCAAGCTTTACCAAGTAATTGGCATGACATCTGAGCACAGAAATTAAGGCAAAAAACCAAAGCAAAA
CAAATACATGGTGTGAAATTAACCTTGATGCCAAGCCCAAGGCAGCTGATTCTGTGTATTGAACTTAGGGCAA
ATCAGAGTCTACACAGACGCCTACAGAAAGTTTCAGGAAGAGGCAAGATGCATTCAATTTGAAAGATATTTATGG
GCAACAAAGTAAGGTCAGGATTAGACTTCAGGCATTATAAGGCAGGCACTATCAGAAAGTGTACGCCAACTAAG
GGACCCACAAAGCAGGCAGAGGTAATGCAGAAATCTGTTTTGTTCCTCATGAAATCACCATCAAGGCCTCCGTTT
TTCATAAGATTAGTCCATCATCATTAGCAACTGAGATCAAAGCACTCTTCCACTTTACGTGATTAAATCAAACC
TGATACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 757

MLSLNNLQNI IYNPVI PYVG TIPDQLDPGTLIVICGHVPSDADR FQVDLQNGSSVKPRADVAFHFNPFRK RAGCI
VCNTLINEK WGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVNIHSIGF
SFSSDLQSTQASSLELTEISRENVPKSGTPQLQTVSPSWDLQGHGSETFCSVLWTRVFLEIAFCRP IGLTVASFQ
SLPFAARLNTPMGPGRITVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNKAFVRNSFLQESWGEEERNITS
FPFSPGMYFEMI IYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

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FIGURE 758

GGCGGCGGCCGGCTCCCGCAGGCGCCGAGGCAGGCGAGCCCCGGCCCCAGGCGCCCGGGCCCCGCGCGCCCG
CGCGCGGCGCGGCATTATTTATTAGGCGACGCTTAAGGGAGCCGGCCGCGCCCGGTGCATTGTGGGAGGCCCGCGG
CCGTTTTTCGGGAGGAAGGCGGAGGGGCCAAAGCGAGCCGGTGGATCCATAAAGAACCCAGCCAACCCGAGAGGG
AGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCAAGAACCATGTCTACGCGGGAGTCCTTTAACCCGGAAAGT
TACGAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGGGCACAGGCTGCAAAGTGCCCCAAGAT
GTCTGCAAAAATTGCTGGAATCTTTACAGGAGAACCACCTTCCAAGAAGATGAGCAGTTTTCTGGGAGCCGTTATG
CCAAGGCTTGGCATTGGAATGGATACCTTGTGTCTTCCTTTGAGGCACGGTGGGCTTTCTTGGTTCAAACCACA
GATTACATTTACCCGATCGTAGACGACCCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCCTCAGTGACCTC
TATGCAATGGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGACCGACAGGGAA
AGGGATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACGCTCTGTAACAGGC
GGCCAAACAGTACTAAACCCCTGGATTGTCTGGGAGGAGTGGCTACCACTGTCTGCCAACCCAATGAATTTATC
ATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGGCAGTGGCTGTG
CACCAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCCAAGAAGATGTAGAGCTGGCC
TACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGTTCAATACCCAC
GCCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGAGGAACGAGGTG
TCGTTTGTAATTCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAAACATGTTCCGGC
CTCATGCACGGGACCTGCCCGGAGACTTCAGGCGGCCTTCTGATCTGTTTACCACGTGAGCAAGCAGCTCGGTTT
TGTGCAGAGATAAAGTCCCCCAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAGAGAAGGGCAAC
CGCACAGCCAGAATCATAGACAAACCCCGGATCATCGAGGTGCGCACACAAGTGGCCACTCAAACGTGAATCCCA
CACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTTAAATAGATCTATTTCCCTTATC
ACTTCAATTAAAGACTATAAACAAACAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAGGTCGGTTTGTAA
GTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTCTGTTACATTAAGTGAAGATCGACCTAATCTTGA
GGCAGCTTCTGAGTTGAGAATT

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FIGURE 759

MSTRESFNPESYELDKSFRLTRFTELKGTGCKVPQDVLQKLLSLQENHFQEDQFLGAVMPRLGIGMDTCVIPL
RHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSPLYAMGVTECDNMLMLLGVS NKMTDRERDKVMPLIIQGFKD
AAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEFIMPDNAVPGDVLVLT KPLGTQVAVAVHQWLDIPEKWNKIK
LVVTQEDVELAYQEAMMNMARLNRTAAGLMHTFNTHAATDITGFGILGHAQNLAKQORNEVSFVIHNLPLAKMA
AVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSPKYGEGHQAWIIGIVEKGNRTARIIDKPRIIEV
AHKWPLKT

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FIGURE 760

TCTCCCTCCGCCTCCCGAGCACCAGCGCTCTGAGCTGCCCCAGGGTCCCTCCCCGCCGCCAGCAGCCCATTT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCGCCCCCACCACCCCTCCCTTCCCACCCGACCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCGAAAGGCCGGGCGCTCGTCTTAGGAGGAGTGC CGCGCCGCCACCTCCGCCATGGAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCTTGAGCGTGC GGCGCTGGAGA
ACCTGCCCACTTTCTTGTGGAAGTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAAGTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAAGTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAAGTCAATTCCTC
AGCTGGTGGCCAAATGTCAAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAAGTTTGATAAAGAGTCTGAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCACATGTCTCCCTTCATTAAAGAACACATCAAGAACCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCCCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTGTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCAATTTGAAGTCAAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTCTGCATATGAATCTC
TGATGGAATTGTGAAAAACAGTGCCAAGGATTGTTATCTGTGTGCCAGAAAACGACTTTGGTTCATATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAGTGTGGGTGGTGAATTCTCAAGTACATGGAGGCCTTTAAACCCCTTCTGGGCATTG
GATTAATAAATATGCTGAATACCAGGTTTGTGTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATAATTTGGGAATGAGAAGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTGCTGTTGGTGATATTGCCCTTGTATTGGAGGAGAGTTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTTATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCACTGGAAATCTCCCATCTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAACACACACATTGAAAATCCTGCCACAGCAG
CAGCCGACCGCCCAACAGCAGCGCTGTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATACATCGGC
CATCTTGAAGAGAGAAAAACAATGGAGTTACTTATTTAAAAAATAAAAAAAAAA

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FIGURE 761

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLT SKDPDIKAQ
YQQRWLAIDANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPALFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEAAYEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYA EYQVCLAAVGLVG
DLCRALQSNII PFCDEVMLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 762

GGCACGAGGCTGCTGTTTGTCTACTTCCTCCTGCTTCCCCGCCGCCGCCGCCATCATGAGGGAAATCGTGCA
CTTGCAAGGCCGGGCAGTGCGGCAACCAAATCGGCGCCAAGTTTTGGGAGGTGATCAGCGATGAGCACGGCATCGA
CCCCACGGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAACGCATCAACGTGTACTACAATGAGGCCACCGG
CGGCAAGTACGTGCCCGCGCCGTGCTCGTGGATCTGGAGCCCGGCACCATGGACTCCGTGCGCTCGGGGCCCTT
CGGGCAGATCTTCCGGCCGGACAACCTTCGTTTTCGGTCAGAGTGGTGTGGGAACAACCTGGGCCAAGGGGCACTA
CACAGAAGGCGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTGAGAAAGGAGGCTGAGAGCTGTGACTGCCTGCA
GGGTTTCCAGCTGACCCACTCCCTGGGTGGGGGACTGGGTCTGGGATGGGTACCCCTCCTCATCAGCAAGATCCG
GGAGGAGTACCCAGACAGGATCATGAACACGTTTAGTGTGGTGCCTTCGCCCCAAAGTGTGAGACACAGTGGTGG
GCCCTACAACGCCACCCCTCTCAGTCCACCAGCTCGTAGAAAACACAGACGAGACCTACTGCATTGATAACGAAGC
TCTCTACGACATTTGCTTCAGAACCCTAAAGCTGACCACGCCCACCTATGGTGACCTGAACCACCTGGTGTCTGC
TACCATGAGTGGGGTCACCACCTGCCTGCGCTTCCCAGGCCAGCTCAATGCTGACCTGCGGAAGCTGGCTGTGAA
CATGGTCCCGTTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCACTGACCAGCCGGGGCAGCCAGCAGTA
CCGGGCGCTGACCGTGCCCGAGCTCACCAGCAGATGTTTGATGCCAAGAACATGATGGCTGCCTGCGACCCCCG
CCATGGCCGCTACCTGACGGTTGCCGCCGTGTTCCAGGGGCCGATGTCCATGAAGGAGGTGGATGAGCAAATGCT
TAATGTCCAAAACAAAAACAGCAGCTATTTTGTGAGTGGATCCCAACAATGTGAAAACGGCTGTCTGTGACAT
CCCACCTCGGGGGCTAAAAATGTCCGCCACCTTCATTGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCAT
CTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGCGAGGGCATGGACGAGAT
GGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCCGAGTACCAGCAGTACCAGGATGCCACAGCCGA
GGAGGAGGGCGAGTTCGAGGAGGAGGCTGAGGAGGAGGTGGCCTAGAGCCTTCAGTCACTGGGGAAGCAGGGAA
GCAGTGTGAACCTTTTATTCACTCCCAGCCTGTCTGTGGCCTGTCCCACTGTGTGCACTTGCTGTTTTCCCTGT
CCACATCCATGCTGTACAGACACCACATTAAAGCATTTTCATAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 763

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGKYVPRAVLVDLEPGTMS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPFRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEGEFEEEEEEVA

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FIGURE 764

GGTTTCCGGAGCTGCGGCGGCGCAGACTGGGAGGGGGAGCCGGGGGTTCCGACGTCGAGCCGAGGGAACAAGCC
CCAACCGGATCCTGGACAGGCACCCCGGCTTGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCCTTCGGCCTGA
GGGAGCCTCGCCGCGCGTCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGAGAAACAGGATGGCCC
AATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGTCCATCAGCTCTACAGTGACAGCTTCCCAA
TGGAGCTGCGGCAGTTTCTGGCCCCCTTGATTGAGAGTCAAGATTGGGCATATGCGGCCAGCAAAGAATCAGATG
CCACTTTGGTGTTCATAATCTCCTGGGAGAGATTGACCAGCAGTATAGCCGCTTCCTGCAAGAGTCGAATGTTT
TCTATCAGCACAACTACGAAGAATCAAGCAGTTTCTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCC
GGATTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGGGGGCC
AGGCCAACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCAGCACCTTCAGGATGTCCGGA
AGAGAGTGCAGGATCTAGAACAGAAAAATGAAAGTGGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAA
CCCTCAAGAGTCAAGGAGACATGCAAGATCTGAAATGGAAACAACCAAGTCAGTGACCAGGCAGAAGATGCAGCAGC
TGGAACAGATGCTCACTGCGCTGGACCAGATGCGGAGAAGCATCTGTAGTGAGCTGCGGGGGCTTTGTTCAGCGA
TGGAGTACGTGCAGAAAACTCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCGCAACAGATTGCCTGCATTG
GAGGCCCGCCCAACATCTGCCTAGATCGGCTAGAAAACTGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC
GTCAACAAATTAAGAACTGGAGGAGTTGCAGCAAAAAAGTTTCTACAAAGGGGACCCCATTTGTACAGCACCAGGC
CGATGCTGGAGGAGAGAATCGTGGAGCTGTTTAGAACTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCAGCCCT
GCATGCCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCTCCAGTTCACTACTAAAGTCAGGTTGCTGG
TCAAATTCCCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGACAAAGACTCTGGGGACGTTGCAGCTC
TCAGAGGATCCCGGAAATTTAACATTCTGGGCACAAACACAAAAGTGATGAACATGGAAGAATCCAACAACGGCA
GCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGCCGAGCCAAATTGTGATG
CTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTATACCAAGGCCCTCAAGATTG
ACCTAGAGACCCACTCCTTGCCAGTTGTGGTGTATCTCAACATCTGTCAGATGCCAAATGCCTGGGCGTCCATCC
TGTGGTACAACATGCTGACCAACAATCCCAAGAATGTAAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATC
AAGTGGCCGAGGTCTGAGCTGGCAGTTCTCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACAC
TGGCAGAGAACTCTTGGGACCTGGTGTGAATTATTCAGGGTGTGAGATCACATGGGCTAAATTTTGCAAGAAA
ACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTGAAAAAGTACATCCTGG
CCCTTTGGAACGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTC
CAGGCACCTTCTGTGAAGATTGAGTAAAGCAGCAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA
TCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAACAACATGTCAATTGCTGAAA
TCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTATCTGACATT
CCAAGGAGGAGGCATTGGAAGTATTGTGCGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGCGCTGCCC
CATACCTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGATGTCCCCC
GCACCTTAGATTCAATTGATGCAGTTTGAAATAATGGTGAAGGTGCTGAACCTCAGCAGGAGGGCAGTTTGAGT
CCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCCTACCTCCCCATGTGAGGAGCTGAGAACGGAAGCTGCA
GAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTAC
TAACCTTGTGGTTCCAGATTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTTTAAAAATA
GAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAATAAGGATGTGTTCTCTGAGACCCATGATCA
GGGGATGTGGCGGGGGGTGGCTAGAGGGAGAAAAAGGAAATGCTTTGTGTGTTTTGTCCCTGCCCTCCTTTT
TCAGCAGCTTTTTGTTATTGTTGTTGTTGTTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGT
TTCTGTAAGCAATGCCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTAACCTTGCTGACATCC
AAATAGAAGATAGGACTATCTAAGCCCTAGGTTTCTTTTTAAATTAAGAAATAATAACAATTAAGGGCAAAAAA
CACTGTATCAGCATAGCCTTTCTGTATTTAAGAACTTAAGCAGCCGGGCATGGTGGCTCACGCCTGTAATCCCA
GCACCTTTGGGAGGCCGAGGCGGATCATAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCGTC
TCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGGAGAAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCACACTGCATCCATCC
TGGGCGACAGTCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 765

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQES
NVLYQHNLRRRIKQFLQSRYLEKPMELARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQD
VRKRVQDLEQKMKVVENLQDDDFNYKTLKSQGDMQDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELAGLL
SAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLNWIITSLAESQLQTRQQIKKLEELQOKVSYKGDPIVQ
HRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDV
AALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANDASLIVTEELHLITFETEVYHQGL
KIDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLWQFSSTTKRGLSIEQL
TTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGSFWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILST
KPPGTFLLRFSSESSKEGGVTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIIMGYKIMDATNILVSPLVLYLP
DIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDLSLMQFGNNGEGAEP SAGG
QFESLTDFMELTSECATSPM

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FIGURE 766

GCGAGTTGTGTGAGCCGCCAGTATGGCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCG
CGGTGCTGGGTGCTGCGGCGGCCGATGCTGGCCGCCCGGGGGCGGGTTCCCACTGCGAGCAGGAGCGTGGTTG
CTCCGAGGCCAGCGGACCTGCGACGCCTCTCCTCCTTGGGCACCTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAA
TGGCGGGGGTTTTGGGAAGCGAGCAGCCGCGGCGGAGGCGCATTTCTCGGGGGCGAGGACGCCTCCGAGGGCGGC
GCGGAGGAAGGAGCCGGCGGCGCGGGGGGACGCGGGCGCCGGGAAGGCCCGGTCTATAACGCGCTCACGCC
ATGACGATCCCCGATGTGTTTTCCGCACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCTTTATC
AAGATTATCGAGGTTAAAAATAAGAAGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCCTTATGTC
GGCGTCTTTCTAAAGAGAGATGACAGCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGG
ACGTTTGGCCAGATCCATGAGATGCGAGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTC
CATATCAGCAGACAGCTGGAGGTGGAGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCGCAGGAAGTCA
AAGCGGGGCAAGAAGGAGGCGGAGGACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCACCCCT
GAGCTCCCGGCTGAGGTGCTCATGGTGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGGAGGAGGTG
AAAGCCCTGACTGCGAGAGATCGTGAAGACCATCCGGGACATCATTGCCTTGAACCCCTCTCTACAGGGAGTCAGTG
CTGCAGATGATGCGAGGCTGGCCAGCGGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACC
GGGGCCGAGTCCCATGAGCTGCGAGGACGTCCTGGAAGAGACCAATATTCTAAGCGGCTGTACAAGGCCCTCTCC
CTGCTGAAGAAGGAATTTGAAGTGAAGCTGCGAGCAGCGCTGGGGCGGGAGGTGGAGGAGAAGATCAAGCAG
ACCCACCGTAAGTACCTGCTGCGAGGAGCAGCTAAAGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAG
GATGCCATCGAGGAGAAGTTCCGGGAGCGCTGAAGGAGCTCGTGGTCCCAAGCACGTCATGGATGTTGTGGAC
GAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACCACTCCTCGGAGTTCAATGTACCCGCAACTACCTAGACTGG
CTCACGTCCATCCCTTGGGGCAAGTACAGCAACGAGAACCTGGACCTGGCGGGGACAGGCAGTGCTGGAGGAA
GACCACTACGGCATGGAGGACGTCAAGAAACGCATCCTGGAGTTCAATGTACCCGCAACTACCTAGACTGG
CAGGGCAAGATCCTCTGCTTCTATGGCCCCCTGGCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCGCGCC
CTGAACCGAGAGTACTTCCGCTTACGCGTCGGGGCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACC
TACGTGGGCGCCATGCCCCGGAAGATCATCCAGTGTGTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATC
GACGAGGTGGACAAGATCGGCCGAGGCTACCAGGGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAG
CAGAATGCCAACTTCTGGACCACTACCTGGACGTGCCCCGTTGCTCAAGGTGCTGTTTCATCTGCACGGCC
AACGTCACGGACACCATCCCCGAGCCGCTGCGAGACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCCCAG
GAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGCCCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCC
AAGCTGTCATCGGACGTGCTGACGCTGCTCATCAAGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAG
CAAGTGGAGAAGGTGTTACGGAAATCGGCCTACAAGATTGTACGCGCGAGGCGGAGTCCGTGGAGGTGACGCC
GAGAACCTGCAGGACTTCTGGGGAAGCCCGTGTACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTG
GTCATGGGGCTGGCCTGGACCGCAATGGGAGGCTCCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGAC
AAGGATGCCAAGGGTGACAAGGATGGCAGCCTGGAGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCC
CGCATAGCCTACACCTTCGCCAGAGCCTTCTCATGCGACGACGCCCCGCAATGACTACCTGGTGACCTCACAC
ATCCACCTGCATGTGCCCGAGGGCGCCACCCCCAAGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTG
CTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGAATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATC
CTGCCTGTTGGTGGCATCAAGGAGAAGACCATTCGCGCCAAGCGCGCAGGGGTGACGTGCATCGTCTGCCAGCC
GAGAACAAGAAGGACTTCTACGACCTGGCAGCCTTCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTAC
CGGGAGATCTTCGACATCGCCTTCCCGGACGAGCAGGCAGAGGCGCTGGCCGTGGAACGGTGAACGGCCACCCCGG
GACTGCGAGGCGGCGGATGTGAGGCCCTGTCTGGCCAGAATGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAG
TGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGACCCAGATCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGC
ATAGAAGCTATTTAATGATTAAAGTCATTTGCAGTA

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FIGURE 767

MAASTGYVRLWGAARCWVLRPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWALWGRGPAIGGQWRGFWEASSRG
GGAFSGGEDASEGGAEEGAGGAGGSAGAGEGPVITALTPTMTIPDVFPHLPLIAITRNPVFPRIKIEVKNKKLV
ELLRRKVRLAQPYVGVFLKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEPE
EPEAENKHKPRRKSARGKKEAEDELSARHPAELAMEPTPELPAEVLMEVENNVHEDFQVTEEVKALTAIEIVKTI
RDIIALNPLYRESVLQMMQAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFELSCL
QQRLGREVEEEKIKQTHRKYLLQEQLKIIKKELGLEKDDKDAIEEKFRERLRELVPKHVMDVVDEELSCLGLLDN
HSSEFNVTRNYLDWLTSPWKGYSNENLDLARAQVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGP
GVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPKIIQCLKKTENPLILIDEVDKIGRGYQ
GDPSSALLELLDPEQNANFLDHYLDVPVDLSKVLFICTANVTDTIPEPLRDRMEMINVSQYVAQEKLAIAERYLV
PQARALCGLDESKAKLSSDVLTLLIKQYCRESGVRNLQKQVEKVLRSAYKIVSGEASVEVTPENLQDFVGKPV
FTVERMYDVTTPGVVMGLAWTAMGGSTLFVETSLRRPQDKDAKGDKGSLEVTGQLGEVMKESARIAYTFARAFL
MQHAPANDYLVTSIHILHVPEGATPKDGPSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTI
AAKRAGVTCIVLPAENKKDFYDLAAFI TEGLEVHFVEHYREIFDIAFFDEQAEALAVR

GTGGGGCTGGGCCAGCGGACGCGGACCTCAGCTGCGGGGCTAACTGCCGGTAGCGCTCTGTGTGCGCCGCCA
AGTCGGTGGGGCGGGGACGCGAGGTGTGGATGGGGGGTGCCTTGACCTCTGCCTCAGCCAGTAGCGCAGTCTCG
GCCTCGCCGTTACGGAGATGGTGCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGGCTGCGACTGGACG
TGGGACGCGAGATCTGCCGCCAGTACCCGCTGTTCTGCTTCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTC
TTAACAGGTATATTCAATTTTTAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTCACATTCTACTGCTCACTAG
GACCTGATTCTCTCTTACCAAATATATTCTTCAATAAAATACAAACCAAGCAGTTAGGACTTCAGGAATTAT
TTCTCAAGGTCATAGCTGTGCTGTTTGTGGTAAAGTGAAATGTAAACGACATAGGCCTTCTTTGCTACTTGAAA
ACTACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCTCAGAGGTGGATATTTCCATCTA
TTATAACCAAGAACTATTAAAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAGCCAGACAGAAAGTAAAAA
ATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCATGTTGCTTTGAGAAGTCGAAGAG
ATGAATTGCACTATTTAAGGAACTTACTGAACTGCTTTTTCTTTATATTTTGCCTCCTAAAGCAACAGACTGCA
GATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTGTGTTCTCTCTTTGGATTTCCTAGETGATC
CAGATACTGTGAATCATTGCTTATCATCTTCATAGATGACAGTCCACCTGAAAAAGCAACTGAACCGGCTTCTC
CTTTGGTTCCATTCTTGAGAAAATTTGCAGAACCTAGAAATAAAAAGCCATCTGTGCTGAAAGTTAGAATTGAAGC
AAATCAGAGAGCAACAAGATCTTTTTATTTGTTTTATGAACTTTCTGAAACAAGAAGGCGCAGTGCACGTGTTGC
AGTTTTGTTTACTGTGGAGGAATTTAATGATAGAATTTACGACCAGAAATTATCAAATGATGAAATGCTGTCTC
TTCATGAAGAATTGCAGAAGATTTATAAAACATACTGTTTGGATGAAAGTATTGACAAAATTAGATTTGATCCCT
TCATTGTAGAAGAGATTCAAAGAATTGCTGAAGGCCCATACATAGATGTTGTGAAACTTCAAACATAGAGATGTC
TTTTTGAAGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCCTATGTTCTGCCATAGTGATGAGT
ATTTCAGACAACCTTTTAAGAGGTGCAGAAATACCAACACGCAATTCAAAATTGAACAGGAACACACAGAAAAGGG
GAGAATCATTGGAATCAGCAGAATAGGTAGCAAAATTAAGGAGTATTCAAAGTACCACAAATGGAGGGAGCTA
TGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGGTATTGTTGTAATGGAAGATGATT
CTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCGGAAACCTTGCTGCATGGAAAATTAGCATTCCATATGTAG
ACTTTTTTGAGGATCCCTCCTCTGAAAGGAAGGAGAAAAAGAAAGAATTCCTGTGTTTTGTATTGATGTTGAAA
GAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTGGTCTGTCTATAGAAGATATCTTGAATTCTATGTAC
TTGAATCAAACTAACAGAATTTTCATGGTGCATTTCTTGATGCCAGCTTCTTCTAAGAGGATCATTGGCCCCA
AAAATTATGAATTCTTAAAGTCAAAGAGGGAAGAGTTCCAAGAATATCTACAGAACTTCTGCAGCATCCAGAAC
TGAGTAATAGTCAACTTCTGGCAGACTTTCTTTCCCTAATGGTGGGGAAACACAATTTCTTGATAAGATATAC
CAGATGTAATCTTGGGAAAATTATAAAATCTGTTCTTGGAAAATAATGAAAGAGAAAGGTGACCAATTGGAAC
CTTTTATCATGAATTTCAATTAATTTCTGTGAGTCTCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCA
GCCCTACTTCAGAAAACAACAAGAAGCTTTTCAATGATCTGTTTAAAAATAATGCAAAACCGTGTGAAAATACAG
AGAGAAAGCAAAATCAGAATTATTTATGGAGGTGATGACTGTTGAAGGAGTCTATGATTACCTGATGTATGTAG
GACGGGTAGTTTTCCAGGTTCTGACTGGCTTCATCATCTCTTAAATGGAACCTCGAATCCTCTTTAAAAACACCC
TGGAAATGTATAGTATTACTATCTTTCAGTGTAACTAGAACAGCTATTTTCCAGGAGCACCGTTTGGTCTCACTCA
TAACACTTCTCAGAGATGCTATATCTGTGAAAACACTGAACCTCGCTCTCTCCAAGATAAGCAAAAAGGAGCAA
AACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAAGAAACCAAGTATG
AAAGCATCAGACTTCTGTTTGTATGGCTTACAGCAACCAGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTACCTCTGTGACATCTTGGATGTAAA
CACTTGGATTTGGTATAGAATAACCCATTGAAATTTCTGCTGTGCGAGGGTGGTAGAAATTTACTTTTTTGGGTA
TATTCTTATATATATTATGTACATCGCTGTCTGAAATTTTAGTTATTTTTTGTTTTTTAATAAAGACTAACACAAA
CTTAATGATTAAAAAGTGAAAAA

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FIGURE 769

MGQKLKQRLRLDVGREICRQYPLFCFLLLCLSAASLLLNRYIHILMIFWSFVAGVVTFYCSLGPDSLLPNIFFTI
KYKPKQLGLQELFPQGHSCAVCGKVCKRHRPSLLENYQPWLDLKISSKVDASLSEVDIPSIITKKLLKAAMKH
IEVIVKARQKVKNTEFLQQAAL EYGPELHVALRSRDELHYLRKLT ELLFPYILPPKATDCRSLTLLIREILSG
SVFLPSLDFLADPDTVNHLIIIFIDDSPPEKATEPASPLVPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFM
NFLKQEGAVHVLQFCLTVEEFNDRILRPELSNDEMLSLHEELQKIYKTYCLDESIDKIRFDPFIVEEIQRI AEGP
YIDVVKLQTMRCLEAYEHVLSLENVFTPMFCHSDEYFRQLLRGAESPTRNSKLN RNTQKRGESFGISRIGSKI
KGVFKSTTMEGAMLPNYGVAEGEDDFIEEGIVVMEDDSPVEAVSTPNTPRNLAAWKISIPYVDFPEDPSSERKEK
KERIPVFCIDVERNDRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREEF
QEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLGKI IKSVPGLMKKEKGQHLEPFIMNF INSCESP
KPKPSRPELTILSPTSENNKKLFNDLFKNNANRAENTERKQNQNYFMEVMTVEGVYDYL MYVGRVVFQVPDWLHH
LLMGTRILFKNTLEMYTDYYLQCKLEQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMYIPD
LLVKCIGEEKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

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FIGURE 770

AGAGAGGAGCCGACTCGGCAGGGACTGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGAAGGGAAGG
GAAGGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAACTGGATCGG
GTTTGCTGCCAGCGGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTCCCGCAACCCGATACCATCGGACAGGATTCTCCGCTCAGCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGACAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
GCACTCTTGGAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTTATTAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACCTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAAACAGGAGCTTTTGTCTTCTGAATATGAAGATCACAACACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAAGTGTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGCTGTTGTACGCAACCTTGCCAACTACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCATTTTGATGAGCGAGATGGTGCTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGAGGGAGAAAAT
ATTGAAATTGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCTGGGGCTGCTCCTCCCCGCGGTAGAGCCGTTATTACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTGAGGTGCGAGAGGAGGTGCCCAACAACAAAGAGGCCGCGGGGTA
CGTGGTGCAGGGGGTGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACATATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAACTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACATCCGCTTGGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAAGTATTTTATTTTAAATTTTTCATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTGTGCTTGAGAAAATTTGGCTCAAGTCCATTGGCTGTAGTGTAACGATGTTTCCA
GTAGTGTTTAGATTGGTGTCTTCAAAGGTAGTTGATTAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACCAACTGCTATTTTAAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 771

MATEHVNGNGTEEPMDTTSAVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALA
VLQQFKDSDL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTL DVTTGQRKYGGPPPD
SVYSGQQPSVGTEIFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRGYAFVTFCTKEAAQEAVKLYNN
HEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEF SKVTEGLTDVILYHQPDDKKKNRSFCFLEYEDHKTA
QARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVVL FVRNLANTVTÉEILEKAFS QFGKLERVKKLKDYAF
IHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQRQA AKNQMYDDYYYYGPPHMPPTTRGRGRGG
RGGYGYPPDYGYEDYYDYGYDYHNYRGGYEDPYGYEDFQVGARGRGGRGARGAAPS RGRGAAPPRGRAGYSQ
RGGPGSARGVRGARGGAQQQRGRGVRGARGGRGNGVGGKRRKADGYNQPSKRRTNNQNWGSQPIAQQPLQGGDH
SGNYGYKSENQEFYQDTFGQQWK

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FIGURE 772

CTTTTCTCCATCTCAGAACCTTCCTGCCGTGCGTTTGACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAAC
CTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAA
AATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTC
TGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAC
CGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAATATGTTCTCGTGCCATCCTGGTGGATCTAGAACCT
GGGACCATGGACTCTGTTGCTCAGGTCTTTTGGCCAGATCTTTAGACCAGACAACCTTGTATTTGGTCAGTCT
GGGGCAGGTAAACAATGGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTA
CGGAAGGAGGCAGAGAGCTGTGACTGCTGCAGGGCTTCAGCTGACCCACTCACTGGGCGGGGACAGGCTCT
GGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCATGAATACCTTCAGTGTGGTG
CCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTACAATGCCACCCTCTCCGTCCATCAGTTGGTAGAGAAT
ACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATCTGCTTCCGCACTCTGAAGCTGACCACCA
ACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATGAGTGGTGTCAACACCTGCCTCCGTTTCCCTGGCCAG
CTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTCCCCTTCCACGTCTCCATTTCTTATGCCTGGCTTT
GCCCCCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGAT
GCCAAGGACATGATGGCTGCCTGTGACCCCGCCACGGCCGATACCTACCGTGGCTGCTGTCTTCCGTGGTCCG
ATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATC
CCCAACAATGTCAAGACAGCCGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAAT
AGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGAAGGCCTTCCTC
CACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCT
GAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCTAA

GGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCTTAGCCGTCTTACTCAACTGCCCCCTTCTCTCCCTCAG
AATTTGTGTTGCTGCCTCTATCTTGTGTTTTTGTGTTTTTCTCTGGGGGGGGTCTAGAACAGTGCCITGGCACAT
AGTAGGCGCTCAATAAATACTTGTGTTGTAATAAAAAAAAAAAAAA

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FIGURE 773

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVS DTVVEPYNATLSVHQLVENTIDETYCIDNEALYDICFRTLKLTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVPPFRLHFFMPGFAFLT SRGSQQYRALTVPELTQQVFDKMM
AACDPRHGRYLTVA AVFRGRMSMKEVDEQMLNVQNKSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGE GMDMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEE

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FIGURE 774

TGTTCCGCGATCTTCTCAGGCTCTCCTAGCAGCATCCATCGCCGCCACCCTATCTTCACTGGCTTCACCTTCTCC
TTCTCTCTTCGTTGCTGAGCGACAAGCTTCCTAGCGCTATGACTGTCTCGTCTCCGTCCCGCAGCGGGAGCCGCTCG
TCCTGGGTGGCCGCTTGGCCGCTTGGCTTTTCTCCCGAGGTTACTTTGGGGCCCTCCCGATGGTGACCACGG
CTCCGCCCTCTTTACCCCGATCCCGGACCCCGGGCACTGCCCCGACCCTCTTCTCCCTCATTTCTAGGGG
GAGATGGCCCGTGTCTGACCCCCAGCCTCGCGCTCCAGCAGCTCTGCCCAACCGCAGCCTCGCCGTGGCGGGAG
GCACTCCTCGGGCAGCGCCGAAGAAGCGGCGAAAGAAGAAGGTGCGGGCCAGCCCGCAGGGCAGCTGCCCAGCC
GCTTCCACCAGTACCAGCAGCACCGGCCGAGTCTGGAGGGCGGCCGGAGCCCGCGACCGGCCGAGCGGAGCGC
AGGAGGTCCCGGGCCCGGCCCGCCCTTGGCCCCGAGTCTGCAGCCGCAGCCGGCACGGAGGGAGCCAGCCCCG
ACCTTGCCCCGCTGCGGCCCGCGGCTCCCGGCCAAACCCCTCAGGAAAGAGGTTTTAAATCAAAGATGGGAA
AATCGGAGAAAATTGCCCTTCCCCATGGCCAGCTTGTTCATGGTATACACTTGTATGAGCAACCAAAGATAAACA
GACAGAAAAGCAAATATAACTTGCCACTAACCAAGATCACCTCTGCAAAAAGAAATGAAAACAACTTTTGGCAGG
ATTCTGTTTTCATCTGACAGAATTCAGAAGCAGGAAAAAAGCCTTTTAAAAATACCGAGAACATTAAAAATTTCG
ATTTGAAGAAATCAGCATTTCTAACTGAAGTGAGCCAAAAGGAAAATTATGCTGGGGCAAAGTTTAGTGATCCAC
CTTCTCCTAGTGTCTTCCAAAGCCTCCTAGTCACTGGATGGGAAGCACTGTTGAAAATTCCAACAAAACAGGG
AGCTGATGGCAGTACACTTAAAAACCTCCTCAAAGTTCAAACCTTAGATTTTTCAGATTTTCAGTATGTGTGTA
ATAATTTTTCCCATATCCCTGGACTCTTGAGAAAATTGGTACAGAAATGGAAATTTGCCTTGTGTGCAACATACAA
TTGCAAAAGATGAGTTTAAAAAATTACATACAAACAGCTTGTATTATATTTTATATTTTGTAAATACTGTATACC
ATGTATTATGTGTATATTGTTCACTTGGAGGATATATTATAGTTTGTATGAAAGTATGTATTTTGCCCTGC
CCACATTGCAGGTGTTTTGTATATATACAATGGATAAATTTAAGTGTGTGCTAAGGCACATGGAAGACCGATTT
TATTTGCACAAGGTACTGAGATTTTTTCAAGAAACAGCTGTCAAATCTCAAGGTGAAGATCTAAATGTGAACAG
TTTACTAATGCACTACTGAAGTTTAAATCTGTGGCACAATCAATGTAAGCATGGGGTTTGTCTCTAAATTGAT
TTGTAATCTGAAATTACTGAACAACCTCTATTCCATTTTTTGCTAAACTCAATTTCTGGTTTTGTTATATATCCA
TTCCAGCTTAATGCCTCTAATTTTAAATGCCAACAAAATTGGTTGTAATCAAATTTTAAAAATAATAAATTTGGC
CCCCCTTTTAAATAGTCTTGACTCTTGTGTGTGACTGTTTCTCATGTTTGAATGTGTGACTAGGAGATGATT
TTGTGTGGTTGGATTTTTTGACTTCTACTTTACTGGCTGAGTGTGAGCCGCATGCCTGGCCATAATCTACATT
TTCTTACCAGGAGCAGCATTGAGGTTTTTGAAGCATAGTACTTGAAGGCTGAGACGGGAGCATCTCT
TGAGCCTGAGAAGTGGAGATTGCAATTGAGCTAGGATCAGGCCACTGCACTCCAGCCTGGGTAACAGACGCTGTC
TCAAAAAAAGGCCAAGAGAAAGTAAGGGAGACAGA

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FIGURE 775

MTVVSVPQREPLVLGGRLAPLGFSSRGYFGALPMVTTAPPPLPRIPDPRALPPTLFLPHFLGGDGPCLTPQPRAP
AALPNRSLAVAGGTPRAAPKKRRKKKVRASPAGQLPSRFHQYQQHRPSLEGGRSPATGPSGAQEVFGPAAALAPS
PAAAAGTEGASPD LAPLRPAAPGQTPLRKEVLKSKMGKSEKIALPHGQLVHGIHLYEQPKINRQKSKYNLPLTKI
TSAKRNENNFWQDSVSSDRIQKQEKKPFKNTENIKNSHLKKS AFLTEVSQKENYAGAKFSDPPSPSVLPKPPSHW
MGSTVENSQNRELM AVHLKTLLKVQT

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FIGURE 776

CCCTACCGCCCCAATTCCGCCCTGCCCCGCCGCGGCGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGG
CCGCTCCGCGAGGGGTGCGCAGCAATCGGCAGAGGGCGCTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGG
TCGCTCCCGATTCCCTGCCCCGGCCGCCCGCCTCGGCTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGC
CCCGCAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCAGCTGGGTGAGCAAGGATGCCCCGCCGAAGAAGGAGCCG
GAGCTCTTCCAGACGGTGGCCGAGGGGCTGCGGCAGCTGTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTAC
CGCTTCCACGAGTTCCACTCGCCCGCRCTGGAGGACGCTGACTTCGACAACAAGCCTATGGTGTCTCTCGTGRGG
CAGTACAGCACGGGCAAGACCACCTTTCATCCGACACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCC
GAGCCCACCACCGACTCCTTTCATCGCCGTATGACAGGCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTGGTG
GTGGACCCGCGCGCCCCCTTCCGCAAGCTCAACGCGTTTGGCAACGCTTTCCTCAACAGGTTTCATGTGTGCCAG
CTGCCCCAACCCGTCCTGGACAGCATCAGCATCATCGACACCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATC
AGCAGAGGCTATGACTTTGAGCCGTCCTGGAGTGGTTCGCGGAGCGTGTGGACCGCATCATCTGCTCTTCGAC
GCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGTGATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGC
GTGTGTCTGAACAAGGCAGACCAGATCGAGACGCAGCAGCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTG
GGCAAGATCATCAACACCCCGAGGTGGTCAGGGTCTACATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCC
GACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCTCTTCAAGGACATCCAGTCACTGCCCCGAACGCGGCC
CTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCTGGCCAAGGTTACGCCTACATCATCAGTCCCTCAAG
AAAGAGATGCCAATGTCTTTGGTAAAGAGAGCAAAAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAG
AAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTTCCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACC
CAGGACTTCAGCAAGTTCAGGCGCTGAAGCCCAAGCTGCTGGACACGGTGGATGACATGCTGGCCACGACATC
GCGCGGCTGATGGTGTGGTGCAGGAGGAGTCCCTGATGCCTTCCAGGTGGTCAAGGGCGGCGCCTTTGAC
GGCACCATGAACGGGCGCTTCGGGCACGGCTACGGCGAGGGGGCCGGCGAGGGCATCCACGACGTGGAGTGGGTG
GTGGGCAAGGACAAGCCCACCTACGACGAGATCTTCTACACGCTGTCCCTGTCAACGGCAAGATCACGGGCGCC
AACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCAACACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTG
GACAAGGACGGGCTGTCTGGACGACGAGGAGTTCGCGCTGGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCAC
GAGCTGCCCGCCGACCTGCCCCCGACCTGGTGCCGCCCTCCAAGCGCAGACATGAGTGGTGGCGCCCGCCCCG
CACCTGCCATTTGCACGCCCGGCCGGGAGGCAGAGACGGGGGGAGGGGAAGCCTCACCATTCTCAAGGTCCATA
AAGACTGAGCGGATGTTTCTCGCCTCTCGAAAAGGAAAACCACCATCTTCTTTTAAGGTGTTCTCTGGGCCTG
GCGGGGGAGGCAGGGGTGAGAGGATGGAATTGTGTGCACAAGAAGTGTGGCTATTTTAATATATAACGTTAGAGG
CTGCGTTCTTTGTGCGCGCTCCCTGTGTGCCAGCCCTGTGTGCACGGCCTCTGCCCCCGGCCCTTGTGTGTG
GCTGGAGCTGGACAGTGCAGTGAAGTGCACCGTGGGGGAGCCAGGTGCGCCCTTTTGGCAGCTGCTAGGCTGAGGC
TGCATGGACAGGAACACCAGGCACCCCTCCGTGTGCTTCTGAGCTGAGGTTGCTTCACGGGACCGTGGCTTCTTC
CTACCTGGCTCTGCCTCCCCGTGCTCTCGGGCGAAGTGGGTCTTGTGCTTCCCTTCCCGGGCCAGGCTCC
CCGTGCGCGGGCCCTGCCCTTTCCTCCCGCGCCCCACCGGCTCCGACGCGCAACCCCGCTCAGCAGTCACAGAAG
CAGGGCCCAGCCACCTTGGTCTTTTTTTGGGAGTTTCAGGGGAGTAGGAGAATGTCTTCCAGAAAAATACATAAGC
TAGTTTCTGTTCTGIAAAGTGATATCTTTTCACTTGACCAAAGTTCCCAATAACTTCCCAACCACTGTTCAAAA
GCTGTGATTTTTGTCTCCCTTCCCACCTCCAGCCAAGGAGCAGCCCTGCCAGGGGAATTTAGGTGTGGGTAC
CCGGGGAGCACCCCGTTTCTGGACCCAGTGTTCATTTCTGGCTGAGGAAGGGTGGTTCATCCAGCTCCTGCC
CTACCTCTCACTTAAGTGGAGCTTTGGGACGCACCCCTCCACAGTGGGAGGTGGTGGTGGGGTGGCGGTGGCGGG
GCCTCACGACAGCTTGGTGTGGTAAGAGGAAGCCCGTGGTTCTGGCTAGGCTCTCATGTCCAGACAGCGGGGAC
CAGGGGAAAACCCAGCCCCTTCTGTAATCCCCCTTCACTTCTACCTTCTTCTCTCTGTTTAGCAAAGGAGG
GCAGCTCACTTGGATGTCTTACAACGCCCTGGCCCCAGGTTGAGCAATAAGAAACCAGAACCTTGCGGCCAG
TGGCCCGGGCCAGTTTCAGGCCGCTCCCCCTCTGCTGGGGCCATTGAGCCCCAGCCTCCAGGGGCCGGGT
GCGTTTGAAGCCAGTGGCCACTGTCCGGGCTGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCT
GGGCTTCCCACAGGCTTTCCCGCGGGGTCTCAGGGAGCTTCTCCCCAGCGCTGCTCGGAGTCTGCAGGAAGT
GCCTTGTCTCTTAGCCCGTCACTCCATACAGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGCCTGGGAAG
TCACTGTGTAAGTTGAGTGGCTTGTTCACACCTGTGGGAAGAGAAGTGAAGACTTCTCCTTGCAATAAAAGT
CTGAAGTGTGAAAAA

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FIGURE 777

MF SWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVXQYSTGKTTFI
RHLIEQDFPGMRIGPEPTTDSFIAVMHGPTGEGVPGNALVVDPRRPFRLNAFGNAFLNRFMCAQLNPVLDSIS
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE
TQQLMRVYGALMWSLGKIINTPEVVRVYIGSFWSHPLLIPDNRKLFEEAEQDLFKDIQSLPRNAALRKLNDLIKR
ARLAKVHAYIISSLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSQFQALK
PKLLDTVDDMLANDIARLMVMVRQEESLMPSQVVKGGAFDGTMNGPFGHGYGEGAGEGIHDVEWVVGKDKPTYDE
IFYTLSPVNGKITGANAKKEMVKSCLPNTVLGKIWKLADVDDGLLDDEEFALANHLIKVKLEGHELPADLPPLH
VPPSKRRHE

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FIGURE 778

GTCACTCTGGCCAGCCCCGCCCTCCTCCCGGCGTCAGCCCGCCAGAGCCGCGCGGGGCCCGGGCTTCGGCCGA
TCAGCCCGGGAGGCCCCGCCGCGCCCCCTTGGCCCGCGCGCCCGTGGTCACAGTGGAAGAGGCGCCCGCGCTGCG
CTGCCCGGAGGAGCCGTCGCGCGCCCGCTTCTGTTCGGCTGGTTCTTGCCAGCTCGAGGACAAAACACGCGTGC
GCGCGGCGGGGAGCGCGCTCGCCGCTCAGTCGCCAGCGCCGGGCGCAGTCCGCCCTTTTCCGGAGCAGACTGG
CCGCGGTGCTAGTCGGTAGCAGCGGCCGCCGAGCGGCTCCGCACTGGCGAACCAGAGGGCAGAAAAAGCGGGGT
TGACGGCTTTTTTGGTAGGAGTGGGCTGGACCGGACGCCAGAGACAAAGGCTCCCAAGGCAAGAGGACTGTGGCC
CTGCGTCGGCTCTGCTCGGAACCTGTGACCCAGGAATTTACGCCCTTCGTTTTTCTCTTCTGATTCTTCTCTT
CTCCCAAGCCCGCGTCCCCTCACGCGTGGCCTCTCTCTTGGCGGGAGGGCCGCGATGGAGGTCCCGCCAGGCT
TTCCCATGTGCCGCGGCCATTGTTCCCTCCGCTCCCGCTACTTTAGCCTCCCGCAGCCTCTCCCATTTGGCGGCC
GCGGCCGCGCGGAGCTAGCCCCGCTCCTCCCTCGCTCGCTCCAGCTCCGCCCGGCGAGGGGGCGCGCCGGG
CCAGCGCCACGTACCCGCCAGCAGCCCTCCCGATTGGCGGGCGGGCGGCTATAAAGGGAGGGCGCAGGCGGGC
CCCGGATCTCTTCCGCCGCCATTTTAAATCCAGCTCCATACAACGCTCCGCCGCGGCTGCTGCCGCGACCCGGAC
TGCGCGCCAGCACCCCCCTGCCGACAGCTCCGCTACTATGGAGGATATGAACGAGTACAGCAATATAGAGGAATT
CGCAGAGGGATCCAAGATCAACGCGAGCAAGAATCAGCAGGATGACGGTAAAATGTTTATTGGAGGCTTGAGCTG
GGATAACAAGCAAAAAAGATCTGACAGAGTACTTGTCTCGATTGTTGGGAAGTTGTAGACTGCACAATTAAACAGA
TCCAGTCACTGGGAGATCAAGAGGATTTGGATTTGTGCTTTTCAAAGATGCTGCTAGTGTGATAAGGTTTTGGA
ACTGAAAGAACACAACTGGATGGCAAATTGATAGATCCCAAAGGGCCAAAGCTTTAAAAGGGAAGAACCTCC
CAAAAAGGTTTTTGTGGGTGGATTGAGCCCGGATACTTCTGAAGAACAATTAAGAATATTTTGGAGCCTTTGG
AGAGATTGAAATATTGAACTTCCCATGGATACAAAACAAATGAAAGAAGAGGATTTGTTTTATCACATATAC
TGATGAAGAGCCAGTAAAAAATTTGTAGAAAGCAGATACCATCAAATTGGTTCTGGGAAGTGTGAAATCAAAGT
TGCACAACCCAAAGAGGTATATAGGCAGCAACAGCAACAACAAAAGGTGGAAGAGGTGCTGCAGCTGGTGGACG
AGGTGGTACGAGGGGTGCTGGCCGAGGTGAGGGCCAAAAGTGAACCAAGGATTTAATAACTATTATGATCAAGG
ATATGGAAATTACAATAGTGCCTATGGTGGTATCAAACTATAGTGGCTATGGCGGATATGATTATACTGGGTA
TAACTATGGGAATATGGATATGGACAGGGATATGCAGACTACAGTGGCCAACAGAGCACTTATGGCAAGGCATC
TCGAGGGGGTGGCAATCACCAAAACAATTACCAGCCATACTAAAGGAGAACATTGGAGAAAACAGGAGGAGATGT
TAAAGTAACCCATCTTGCAGGACGACATTGAAGATTGGTCTTCTGTTGATCTAAGATGATTATTTGTAAAAGAC
TTTCTAGTGATACAAGACACCATTGTGTCCAAGTATATAGCTGCCAATTAGTTTTCTTTGTTTTACTTTGTCC
TTTGCTATCTGTGTTATGACTCAATGTGGATTTGTTTATACACATTTTATTTGTATCATTTTATGTTAAACCTCA
AATAAATGCTTCTTATGTGATTGCTTTTCTGCGTCAGGTACTACATAGCTCTGTAAAAAATGTAATTTAAATA
AGCAATAATTAAGGCACAGTTGATTTGTAGAGTATTGGTCCATACAGAGAACTGTGGTCCCTTTATAAATAGCC
AGCCAGCGTCACCCCTTCTCCAATTTGTAGGTGATTTTATGCTCTTAAGGCTTCATCTTCTCCCTGTAAGTGA
GATTTCTACCACACCTTTGAACAATGTTCTTTCCCTTCTGGTTATCTGAAGACTGTCTGAAAGGAAGACATAAG
TGTTGTGATTAGTAGAAGCTTTGTAATCATAACAATGAGTAATCTTGTATAAAAGTTCAGATACAAAAGGAG
CACTGTAAAACCTGGTAGGAGCTATGGTTTAAAGAGCATTGGAAGTAGTTACAACCAAGGATTTTGGTAGAAAGGT
ATGAGTTTGGTCGAAAAATTAATAAGTGGCAAAATAAGATTTAGTTGTGTTTTCTCAGAGCCGCCACAAGATTG
AACAAAATGTTTTCTGTTTGGGCATCCTGAGGAAGTTGTATTAGCTGTTAATGCTCTGTGAGTTTAGAGAAAAGT
CTTGATAGTAAATCTAGTTTTTGACACAGTGCATGAACTAAGTAGTTAAATATTTACATATTCAGAAAGGAATAG
TGGAAAAGGTATCTTGGTTATGACAAAAGTCATTACAAATGTGACTAAGTCATTACAAATGTGACTGAGTCATTAC
AGTGGACCCCTCTGGGTGCATTGAAAAGAATCCGTTTTATATCCAGGTTTCAGAGGACCTGGAATAATAAAGCT
TTGGATTTTGCATTGAGTGTAGTTGGATTTTGGGACCTTGGCCTCAGTGTATTACTGGGATTGGCATACTGT
TCACAGGCAGAGTAGTTGATCTCACACAACGGGTGATCTCACAAAACCTGGTAAGTTTCTTATGCTCATGAGCCCT
CCCTTTTTTTTTTTAATTTGGTGCCTGCAACTTTCTTAAACAATGATTCTACTTCTGGGCTATCACATTATAATG
CTCTTGGCCTCTTTTTTGTGCTGTTTTGCTATTCTTAAACTTAGGCCAAGTACCAATGTTGGCTGTTAGAAGGG
ATTCTGTTTCAATCAACATGCAACTTTAGGGAATGGAAGTAAGTTCAATTTTAAAGTTGTGTGGTCACTAGGTGCGG
TGTCTAGGGTAGTGAATCCTGTAAGTTCAAATTTATGATTAGGTGACGAGTTGACATTGAGATTGTCTTTTCCC
CTGATCAAAAAATGAATAAAGCCTTTTAAACG

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FIGURE 779

MEVPPRLSHVPPPLFPSAPATLASRSLSHWRPRPPRQLAPLLPSLAPSSARQGARRAQRHVTAQQPSRLAGGAAI
KGGRRRRPDLFRRHFKSSSIQRSAAAAAATRTARQHPPADSSVTMEDMNEYSNIEEFAEGSKINASKNQDDGKM
FIGGLSWDTSKKDLTEYLSRFGEVVDCTIKTDPVTGRSRGFGFVLFKDAASVDKVLELKEHKLDGKLIDPKRAKA
LKGKEPPKKVFGGLSPDTSEEQIKEYFGAFGEIENIELPMDTKTNERRGFCFITYTDEEPVKKLLESRYHQIGS
GKCEIKVAQPKEVYRQQQQQKGGRGAAAGGRGGTRGRGRGQQQNWQGFNNYYDQGYGNYSAYGGDQNYSGYG
GYDYGNYGNYGYGQGYADYSGQQSTYGKASRGGGNHQNNYQPY

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FIGURE 780

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCGGCCGCC**ATGG**CTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGGCGTCCCGCCCGGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTTGGTGGGGGATTGTTCCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAAC TACAACCTTAGCAAGATGIGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGCTTGTTCGAGGTGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAGCAGACCAGGCCCCAGGAGTGGAAACCGGAGACATTGTTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTTCAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTGAAAGCTCTATGTGGATTTC
GTTACATTTAAGCACCTTGATGGACGTCAGATTGTGGTGAATACCCCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTCTGTAGTTTCGAGGTGAAGGGATGCCGCGAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCTGAAAACAACTGGATCAACCCAGACAAGCTTTCTGAACTAGAAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCATCAG**TAA**ACTCTGCAAAACAAATTGCACAGGTGGATTTTCTTTCCACATTTGCCTGATTGTTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCAGATGAACTGAGGGACATCTGTTGGTCTATGTATAACTTTTAAAA
TTGGTATAGTATCTACAGAGTGTATAATTTAACTAACCACAAAGCTTTACATCTTCATTTTGACTGTTCCATAG
CAAAATAAAGCACTTGAAAGGAAACAAACTCCCTTTCACACATGGATTATTATAAGTTTCAATCCTGGTATCTG
TGCTTGATTTTTATCAGTTTTGTGTAAATTTTTATGTTTCATATTTAAATTTAAATCCCACATTGTAAAGTTTG
TACAATTTGTCCTGAAGCTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAAAATAAAAAATTTTCATAGC
CTGTATCTATCATTTAAATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATG
GAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTGTTTTTGGGTTTTGTTTTTTTTTTGTTTTTTTTTTTT
TTTTTTTACCATTTTGTGAAAGTTTTTGAAGATCGATAATAAAAGCGTTGGTGTAAATTTAAAAA
AA

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FIGURE 781

MANVADTKLYDILGVPPGASENELKKAYRKLAKYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSSACSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVSCDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVPGDIVLLLQEKEHEVFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIIEPGCVRVVRGEGMPQYRNPFKGDLYIKFDVQFPENNWINPKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRGSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

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FIGURE 782

CTCTGAGGAGAAGCAGCAGCAAACATTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGIGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCCGCCATATAGATTCTGCTCATTATACATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAAACCTCACTGAAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACTCCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAAACAGT
GATAGTTTGTCTAGCCACCCTAATTATCCATATTTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTATCATTTTG
AAAT

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FIGURE 783

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKQAQLDYVDLYLIHSPMSLKPGHEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 784

GCATCTGCGCAGGCGCCCGGCTCCTAAGTCTACCCAGGAACTGACCCTGCTCTCTCCTTTCCCTGTTAGACATGG
GCACTCCACAGAAGGATGTTATTATCAAGTCAGATGCACCGGACACTTTGTTATTGGAGAAACATGCAGATTATA
TCGCATCCTATGGCTCAAAGAAAGATGATTATGAATACTGTATGTCTGAGTATTTGAGAATGAGTGGCATCTATT
GGGGTCTGACAGTAATGGATCTCATGGGACAACCTTCATCGCATGAATAGAGAAGAGATTCTGGCATTATTAAGT
CTTGCCAACATGAATGTGGTGAATAAGTGCTAGTATCGGACATGATCCTCATCTTTTATACACTCTTAGTGCTG
TCCAGATTCTTACGCTGTATGACAGTATTAATGTTATTGACGTAAATAAAGTTGTGGAATATGTTAAAGGTCTAC
AGAAAGAAGATGGTTCTTTTGTGGAGATATTTGGGGAGAAATTGACACAAGATTCTCTTTTGTGCGGTGGCAA
CTTTGGCTTTGTTGGGGAAGCTTGATGCTATTAATGTGGAAAAGGCAATCGAATTTGTTTTATCCTGTATGAACT
TTGACGGTGGATTTGGTTGCAGACCAGGTTCTGAATCCCATGCTGGGCAGATCTATTGTTGCACAGGATTCTGG
CTATTACAAGTCAGTTGCATCAAGTAAATTCTGATTTACTTGGCTGGTGGCTTTGTGAACGACAATTACCCTCAG
GCGGGCTCAATGGAAGGCCGAGAGTTACCAGATGTATGCTACTCATGGTGGGTCTGGCTTCCCTAAAGATAA
TTGGAAGACTTCATTGGATTGATAGAGAGAACTGCGTAATTTCAATTTTAGCATGTCAAGATGAAGAAACGGGGG
GATTTGCAGACAGGCCAGGAGATATGGTGGATCCTTTTCATACCTTATTTGGAATTGCTGGATTGTCACITTTGG
GAGAAGAACAGATTAAACCTGTTAATCCTGTCTTTTGCATGCCTGAAGAAGTGCTTCAGAGAGTGAATGTTCAGC
CTGAGCTAGTGAGCTAGATTTCATTGAATTGAAAGTTGCATAGTATAGTTTGGCCATTTAACATTTCTGTATTG
AAGTGCTTATCGAATCTAAAAGTGACTACTGTTAATATTTGTATATTGTGTAAATTAATTTAATAAATTATA
TAATTATACATATTGTAAATAAAGACCGGTATTTTATTTCTGCTTTTTATTCTGAAGTCCTGTTATTCTGACT
ACAGTTCTTTGTGTATACTTCTGTGTCTGTATGTTCAATAACTGAGCTAACATAAAATAACTCTAGGTTTCTAC
TTGATTTTCCCCCATGTATACCTTTTCATCTGTTCTATAGCAAGTTGATGTAAATTGGTTTGTCAACAAGAAATGT
TAACTGATGAAAGTGGATAGAACCCATACATGAATTAATGATGCACAAAATAAATGGCTGTTGAAATTTGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 785

MGTPQKDVIIKSDAPDTLLLEKHADYIASYGSKDDYEYCMSEYLRMSGIYWGLTVMDLMGQLHRMNREEILAFI
KSCQHECGGISASIGHDPHLLYTLSAVQILTLYDSINVIDVNKVVEYVKGLQKEDGSFAGDIWGEIDTRFSFCAV
ATLALLGKLDAINVEKAIEFVLSCMNFDGGFGCRPGSESHAGQIYCCTGFLAITSQLHQVNSDLLGWWLCERQLP
SGGLNGREKLPDVCYSWWVLASLKIIGRLHWIDREKLRFILACQDEETGGFADRPGDMVDPFHTLFGIAGLSL
LGEEQIKPVNPVFCMPEEVLQRVNVQPELVS

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FIGURE 786A

GCGGGGACCGGACGAGCCCGGTGCGCGTTGGCAGCAGCAGCAACACCAGCAGCAGCAGCAGCCCCGGCGG
CGGCGCGGAACCCCGAGCGCCCGGCGCACCCCGCTTCCCGGAGCGCGACGCGGCGCAGCAGCCCCGGTGCGG
CCGCGCGCGCCTTAGGCTCGGCCCGCGGCTCGGGGACCCGACTCCCGGCCAGCGAGCGCTCCCCGGCGCC
GCCCCAGAGCCCCAGGAGGCGCGCCGAGAGCCCGGGGAGGGGGCGGCCACCGCCCGCGCGGGCATCCTC
AGGAGCCCCAGAGCGCGGAGGGCGCGGCCGCGGAGCGGTGCTGGCCCCCGCGGGCTCCCCGGACCTTCCCCAC
CGCTTGGGCCCCGAGGACGCGTGATCGGGCGGGCGCGGGCGCAAGGGTGGGAGGGAGCGCCCCCGCGCGC
CCCCTCGCCCCCTCGCCCCAAACCCTGGGCGCCGGGCGCGGGCGCGCGGCTGAAGCGCCCGCGATGCGGAGC
CCGCGCGCGCACGGGCCCGCGGGCGGCGAGCGGAGACGGCCCCAACCTCAACAACAACAACAACAACAAC
AACCACAGCGTGCGCAAGTGCGGCTACCTGCGCAACGAAGAGCATGGCCACAAGCGCTTCTTCTGCTGCGCGGA
CCCGCGCGGGCGGCGACGAGGCGACGGCGGGCGGGGGTGGGCGCGCAACCGCCGCGGCTCGAGTACTACGAG
AGCGAGAAAAAGTGGCGGAGCAAGGCGAGCGCGCGGAAACGGGTGATCGCTCTCGACTGCTGCCTGAACATCAAC
AAGCGCGCGGACGCCAAGCACAAGTACCTGATCGCCTCTACACCAAGGACGAGTACTTCCGCGTGGCGCGGAG
AACGAGCAGGAGCAGGAGGGCTGGTACCGCGCGCTCACGACCTGGTCAGCGAGGGCCGCGCGGCCCGCGGAGAC
GCGCCCCCGCGCGCGCGCGCGCGCTCTGCGCGCTTCCCTGCGCGCGCGCTGGGCGGCTCTGCCGGCGCC
GCGGGGCGGAGGACAGCTACGGGCTGGTGGCTCCCGCCACGGCGCGCTACCGTGAGGTGTGGCAGGTGAACCTG
AAGCCCAAGGGTCTGGGCCAGAGCAAGAACCTGACGGGGGTGTACCGTCTGTGCTGTCTGCGCGCACCATCGGC
TTCGTGAAGCTCAACTGCGAGCAGCGTCCGGTGACGTGCGAGTCTATGAACATCCGCCGCTGCGGCCACTCGGAC
AGCTTCTTCTTCATCGAGGTGGGCGCTCGGCCGTACAGGCCCGCGGCGAGCTGTGGATGCAGGCGGACGACTCG
GTGGTGGCGCAGAACATCCACGAGACCATCCTGGAGGCCATGAAGGCGCTCAAGGAGCTCTTCGAGTTCCGGCCG
CGCAGTAAGAGCCAATCGTGGGGTCTCGGCCACGCAACCCATCAGCGTCCCGCGCGCGCGGCCACCCAC
CTGGTCAACCTGCCCCCAGCCAGACGGGCTGGTGGCGCGCTCGCGCACCGACAGCCTGGCGGCCACCCCGCG
GCGGCCAAGTGCGAGCTCGTGCCGGGTGCGCACCGCCAGCGAGGGCGACGGCGGCCGGGTGCGGGAGCGCGGCC
GCGGCGCAGAGGCTGGTGTGGTGGTGGGAGCCCCCTGAGCCCCGGGCGGTGCGCGCGCCCTGAGCGCTCG
CACACCCTGAGCGGCGGCTGCGGCGGCCGCGGGAGCAAGGTGGCGCTGCTGCCGGCAGGGGGCGCGCTGCAACAC
AGCCGCTCCATGTCCATGCCCGTGGCGCACTCGCGCGCGCGGCCACCGCCCCGGCTCCTGTCTGCTCCAGCAGC
GGCCACGGCTCGGGCTCCTACCCGCGCGCGCGCGGCCGCAACCGCCTCTGCCGATCCGCTGCACCACGGCCCC
GGCCAGCGGCCCTCCAGCGGCGAGCGCTCGCCTCGGGTCCCCCAGCGACCCCGGCTTCATGTCCCTGGACGAG
TACGGCTCCAGCCCAGGCGACCTGCGCGCTTCTGCGAGCACCGAAGCAACACGCCCCGAGTCCATCGCGGAGACG
CCCCCGCGCGGAGACGGCGGCGGCGGGGTGAGTTCTACGGGTACATGACCATGGACAGGCCCCCTGAGCCACTGT
GGCGCTCCTACCGCGGGTCTCGGGGACGCGGCCAGGACCTGGACCGAGGGCTGCGCAAGAGGACCTACTCC
CTGACCACGCCAGCCCGGCGAGCGGCGGTGCCCCAGCCCTCCTCTGCCTCGCTGGATGAATACACCCTGATGCGG
GCCACCTTCTCGGGCAGCGCGGGCGCCCTTGCCCGTCTGCCCCGCGTCTCTCCCAAGGTGGCCTACCACCCC
TACCCAGAGGACTACGGAGACATCGAGATCGGCTCCACAGGAGCTCCAGCAGCAACCTGGGGGCGAGCAGCGG
TACATGCCCATGACGCGCGCGCGGCTTCGCGGCGAGTGGGAGCGGCGAGCTGCAGGAGCGACGACTACATGCC
ATGAGCCCCCGCAGCGTGTCCGCCCCAAGCAGATCTTGACGCCCAGGGCGCGCGCGCGCGCGCGCGCGCTG
CCTTCTGCGGGGCTGCGGGGCGAGCACCCACCTTGGCGGCGGCGAGGACATTCCCGCGGAGCGGGGGCGGCTAC
AAGGCCAGCTCGCCCGCGAGAGCTCCCCGAGGACAGTGGGTACATGCGCATGTGGTGGGTTCCAAGCTGTCC
ATGGAGCATGCGAGATGGCAAGCTGCTGCCCCACGGGGACTACCTCAACGTGTCCCCAGCGACGCGGTACCCAG
GGCACCCCGCCGACTTCTTCTCCGCGAGCCCTGCACCCCGCGGGGAGCGCTCAGGGGCGTTCCCGGCTGCTGC
TACAGCTCCTTGCCCCGCTCCTACAAGGCCCTACACCTGTGGCGGGGACAGCGACCACTAGCTGCTCATGAGC
TCCCCCGTGGGCGCATCCTGGAGGAGGAGCTGTGGAGCTCAGGCCACGCCAGGGGCCAGCCAGGCGGCCAGC
GCCTTCGGGGCGGCCCCACGCGAGCCCCCTACCCCTGTAGTGCCTTCGCCGCTGCGGCGTAGCGGCCCGCGGTCA
GGTTTCTTGGGCCAGCGCGGCGGGCGGTGAGGCCACGCGCTGTCCCTGGAGGGGTGCCAGCCTGCCAGC
ATGACAGAGTACCCACTGCCACCGGAGCCCCAAGAGCCCCGCGAGTACATCAACATCGACTTTGGCGAGCCCCGG
GCCCGCTGTGCGCGCGCGCGCTCCCCCTGTGGCGTGGCGGCGCTGCTCCTCCTCGCTCTTGTCCGCCAGCAGC
CCGGCCTCGTGCCTGGGCTCAGGCACCCCGGGCACAGCAGCGACAGCGGCGAGCGGTCTCCGCTCTCCGACTAC
ATGAACCTCGACTTCAGCTCCCCAAGTCTCCTAAGCCGGGCGCCCCGAGCGGCCACCCGTGGGCTCCTTGGAC
GGCTCCTGTCCCCGAGGCCTCCTCCCCGTATCCGCGGTGCCCCCGCGTCCGTCCGCGTCCCGCTCGTCTCT

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FIGURE 786B

CTGCAGCCGCCGCCACCGCCGCCGCCCGGGGAGCTGTACCGCCTGCCCCCGCCTCGGCCGTTGCCACCGCC
CAGGGCCCGGGCGCCGCTCATCGTTGTCTCGGACACCGGGGACAATGGTGACTACACCGAGATGGCTTTTGGT
GTGGCCGCCACCCCGCCGCAACCTATCGCGGCCCGCCGAAGCCAGAAGCTGCCCGCGTGCCAGCCCGACGTCG
GGCGTGAAGAGGCTGAGCCCTCATGGAGCAGGTGTGGGAGTCGAGGCCTTCCTGCAGGCCAGCCAGCCCCGGAC
CCCCACCGCGGGCGCCAAAGGTCATCCGCGCAGACCCGAGGGGGGCCGCCGCCACAGTTCCGAGACCTTCTCC
TCCACCACGACGGTCAACCCCGTGTCCCCGTCTTCGCCCCACAACCCCAAGCGCCACAACCTCGGCCCTCCGTGGA
AATGTCTCTCTCAGGAAAAGCAGCGAGGGCGCGGTGGGTGTGGGCCCTGGAGGGGGCGACGAGCCGCCACCTCC
CCACGACAGTTGCAGCCGGCGCCCTTTGGCACCGCAGGGCCGGCGGTGGACCCCGGGTCAGCCCGGGGGCTTG
GTCGGTTGTCTGGGAGCGGTGGATCGCCCATGCGCAGAGAGACCTCTGCCGGCTTCAGAATGGTCTCAACTAC
ATCGCCATCGACGTGAGGGAGGAGCCCGGGCTGCCACCCAGCCGCGAGCCGCCGCCCGCGCTTCTCAGCCG
GGAGACAAGAGCTCCTGGGGCCGGACCCGAAGCCTCGGGGGTCTCATCAGCGCTGTGGGCGTCGGCAGCACC
GGCGGGTGGCGGGGGCGGGTCCCGGTGCCCTGCCCTGCCAACCTACGCCAGCATTGACTTCTGTCCAC
CACTTGAAGGAGGCCACCATCGTGAAGAGTGAAGATCTGTCTGGCTTTATCACCAGGATGTACATGTCAGAGA
ATATCATTAAAGAAGACGCTCAGCGCTGTTTTCAGCCCGAAGCTGCTTCAGTTTTCTTTGGATCTGAGCAATG
ACTGTGTTTGGAAACATCTGTGACTCTGATAGATGGGGCACAACAAGGCAAGGTCACCTGCCTCTTTCCCTTGT
TCCCGGATGGGCATTTCATTGTGTGTTTGGCTTTGTTTGTGTTTAAACAAAATTAGCTGAAGAAGTT
ATTCTCAAGAAAATTGGATGTTTTCATTGGCCTTCTTAAATTGTGGCCAGTGTCTTTAATTTCTTCTTTTTC
CTTTTGGCAAAGCAGATATAACCTCAGCATGCTAGGAGAGTGCACCCGTACCTATGGAAGTGGTAAATCTGGT
ATTTACTGGCTTACACTCAAACGACCACAGTCTTACCTCAGTTCAAGGTAAAGCCGGATTTCGTTGGCGGGGT
CCACAGGACCTCCTGTAGTAGCCCTGCGCTGTGTCTGGAGCGCGTCTCGCTTATTAAATGGTCCAGTAG
ACAGCTGCTTGTGGATTCCAGTGCAGGTACCTGCGATGTTTACGTCCACACCGAGCCAGTGTGGGACTGACAT
TTCTCAATGGAAGTGAATTTGGGATTGGACTTTGAAGACGATTACTAAATAATAATTATTATGTAAGTGAAG
CAACCTACTTTTGAATCAACTGTATTGGGTAGTGGGAGGTGGGAGGGAAGGGCTTTGGGAAGGGGATGAATAT
CTCTTTTACCTTTAACAGACTTGTAACTTCTCGATGTAGATGTTATGTAGGTACTTCACATTGCAAACGC
CTTTTATTCTATTTACAAGCTCAGATGTCTGTCTCTGATCTTGAATCTTGGGCATGCCTTCTGTAACCAAAATCC
CTGTAGGCGTGCTAGCAATTCAGGGTGGTCCGGGTTTGGCAGATTTGATTTTTAAAAATGTATTATCTTTAAT
AAAAATGTTATTATGTCAACAGTGAGGCTGCCCTGAACAAAAAAGAAAAAAGAAAAAAGGAAAGA
AAGAACTGATAAAAAGAGGCATCCAGCCCTATGTTATTGATGGAAAAAGAAAAAGAAAGCAATCTCGCA
GTACATGTTACTTGTGAAAAAATTCGGACAAGACTACCTTGTGTTTATGTTTTCAGTATTCTGAAAAATACCAG
TGTGTGGCAGTTCTCGCAGATGTTACCTAAAAGTCTGAACTTGACCGCAGAATGTTCTGCCGTTTCTGTCTCC
CTCGACACTTGATTGGAGGGCTGTGACCTCTCCTCCCGTGGGGGCTTCCCAGTGCCTATCTTCTGTAGATC
ATGGAGAGGTTACACTAATTCATTGGAGATGTAAGTTGTTGGTTTTGTTTTGTTTTGTTTTAGAAAAATATATA
TAAATATATAATAGATATCTATCGCTATAGAATAATGCATTAATAAAATGAGGCTTTTTAGAGGAAGACCAAAA
AATTCATGCTTAAAAATATATTTAATGGCAATGCAAGTCTTCCCTGCTTCCGTGCTGAACCTTTAGAACAGAG
GATTGTATTGCAAGACAAAGTTGAATGTAAAGTGATCTCCCTGAACATTTTAAAGTTTTACTTTTCTGAAATTA
TACATCACAGCAGTGATAGGCCATATAATGTTAGCTGGAAGGTCAATTCAGTGTATGATATACTTTATTAAGA
TGTATAAACATCCTGAAGTTTTTATTTAGTTTTGGGAATAGGCATCAGTGGGTGGTATTGTGTTTGTAACTCCC
CCCAGGTACGATAGGGACTGAATATGGACCTGCTGAAAGCAGTGTATTGACGCATATTTAACTCGCCCTCTATC
CGTAGAGTAGTCATGACACTATACAGATGGTTTCGTGTTTACTGTCAGCTTAAACAAGCAAAATACACAGATGA
TAATATGCTAAATTTTCTCTATCCTGTACATTTACAAAAAGGCATATGCAATATTTACATTTTAAATTTAGTT
TACAGAAATGGAACCAAAATGTATAAATGTTATGTTTGTGCTAAACCTTACCAATGTATATTGGGTCTTTGTACATTT
TGCCTGACTTACCTTAAATTTAAATATTTTTGCTATATAAACTTTAACAGTTATTAAACAGTGTGTTTCCCTTTT
GGGTACGTATTGTTTCTGGATATCAAGATGTTAAATATATTTCTTGCTATTGTGATATGACAAGAGACTTAACTT
ATCTTGCTCTGTCTTCCACTGTACACGCTGTATATAGGGGTCAATGTGATGCTGCTGGAGACGAGAATAAACTGG
ACTAGAAIAGTGCATTGTATTAGTCTGTATTGATCATGGATGCCCTCCTTAATAGCCATATGCAATAAAATAAA
GTACATTATTTATGAAATGAA

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FIGURE 787

MASPPRHGPPGPASGDGPNLNNNNNNNNHNSVRKCGYLRNEEHGKREFFVLRGPGAGGDEATAGGGSAPQPPRLE
YYESEKKWRKAGAPKRVIALDCCLNINKRADAKHKYLIALYTKDEYFAVAANEQELEGWYRALDLDVSEGRAA
AGDAPFAAAPAASCSASLPGALGGSAGAAGAEDSYGLVAPATAAYREVWQVNLKPKGLGQSKNLTGVYRLCLSAR
TIGFVKLNCEQPSVTILQLMNIRRCGHSDSFFFIIEVGRSAVTGPGELWMQADDSVVAQNIHETILEAMKALKELFE
FRPRSKSQSSGSSATHPISVPGARRHHHLVNLPPSQTGLVRRSRIDSLAATPPAAKCSSCRVRTASEGDGGRAAG
AAAAAQRLVSVAGSPLSPGPVRAPLSRSHITLSGGCGGRGSKVALLPAGGALQHSRSMSPVAHSPPAATSPGSLS
SSSGHSGSYPPPPGPHPLPHPLHHGPGQRPSSGSASASGSPSDPGFMSLDEYGSSPGDLRAFCSHRNTPESI
AETPPARDGGGGGEFYGYMTMDRPLSHCGRSYRRVSGDAAQDLDRGLRKRTYSLTTPARQRPVPQPSSASLDEYT
LMRATFSGSAGRLCPSCPASSPKVAYHPYPEDYGDIEIGSHRSSSSNLGADDGYMPMTPGAAGAGSGSGSCRSD
YMPMSPASVSAPKQILQPRAAAAAAAVPSAGPAGPAPTSAGRTFPASGGGYKASSPAESSPEDSGYMRMWC
KLSMEHADGKLLPNGDYLVNPSDAVTTGTPDFFSAALHPGGEPLRGVPGCCYSSLPRSYKAPYTCGDSQYV
LMSSPVGRILEERLEPQATPGPSQAASAFGAGPTQPPHPVVPSPVRRSGRRSGFLGQRGRAVRPTRLGLEGLPS
LPSMHEYPLPEPKSPGEYINIDFGEPEARLSPAPPLLASAASSSSLLSASSPASSLGSGTPTGSSDSRQRP
SDYMNLDFFSPKSPKPGAPSGHPVGSGLDGLLSPEASSPYPLPPRPSASPSSSLQPPPPPPAPGELYRLPPASAV
ATAQGPGAASSLSDTGDNGDYTEMAFGVAATPPQPIAAPPKPEAAARVASPTSGVKRLSLMEQVSGVEAFLQASQ
PPDPHRGAKVIRADPQGGRRRHSSETFSSTTTVTPVSPSFAHNPKRHNSASVENVSLRKSSEGGVGVPGGGDEP
PTSPRQLQAPPLAPQGRPWTGPGGLVGCPSGGSPMRRETSAGFQNLNYIAIDVREEPGLPPQPQPPPPPL
PQPGDKSSWGRTRSLGGLISAVGVGSTGGCGGPGPGALPPANTYASIDFLSHHLKEATIVKE

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FIGURE 788A

GGGTGATTACAGCGCCCGGCGAGGCGGAACGGGCCCAAGAGGAGGAGGGGAGAGCCCGTCCGCGCCTGGGCTCCC
GGGTGGCACAGCCCCGCGGCCGAGTGCGAGGCGGAGGCGAGGAGGCCGCGGGGACGGGAGGCGAGGCCGGCCG
GGCCCCGAAGCCATGGAGAACGCGCACACCAAGACGGTGGAGGAGGTGCTGGGCCACTTCGGCGTCAACGAGAG
TACGGGGCTGAGCCTGGAACAGGTCAAGAAGCTTAAGGAGAGATGGGGCTCCAACGAGTTACCGGCTGAAGAAGG
AAAAACCTTGCTGGAACTTGTGATTGAGCAGTTTGAAGACTTGCTAGTTAGGATTTATTACTGGCAGCATGTAT
ATCTTTGTTTTGGCTTGGTTTGAAGAAGGTGAAGAAACAATTACAGCCTTTGTAGAACCCTTTGTAATTTTACT
CATATTAGTAGCCAATGCAATTGTGGGTGTATGGCAGGAAAGAAATGCTGAAAATGCCATCGAAGCCCTTAAGGA
ATATGAGCCTGAAATGGGCAAAGTGTATCGACAGGACAGAAAGAGTGTGACGCGGATTAAAGCTAAAGACATAGT
TCCTGGTGATATTGTAGAAATTGCTGTTGGTGACAAAGTTCCTGCTGATATAAGGTTAACTTCCATCAAATCTAC
CACACTAAGAGTTGACCAGTCAATTCTCACAGGTGAATCTGTCTCTGTCATCAAGCACACTGATCCCGTCCCTGA
CCCACGAGCTGTCAACCAAGATAAAAAAGAACATGCTGTTTTCTGGTACAAACATTGCTGCTGGGAAAGCTATGGG
AGTGGTGGTAGCAACTGGAGTTAACACCGAAATTGGCAAGATCCGGGATGAAATGGTGGCAACAGAACAGGAGAG
AACACCCCTTCAGCAAAAACTAGATGAATTTGGGGAACAGCTTTCCAAAAGTCATCTCCCTTATTTGCATTGCAGT
CTGGATCATAAATATTGGGCACTTCAATGACCCGGTTCATGGAGGGTCTGGATCAGAGGTGCTATTTACTACTT
TAAAATTGCAGTGGCCCTGGCTGTAGCAGCCATTCTGAAGGTCTGCCTGCAGTCATCACCACCTGCCTGGCTCT
TGGAACTCGCAGAATGGCAAAGAAAAATGCCATTGTTGCAAGCCTCCCGTCTGTGGAAACCCTTGGTTGTACTTC
TGTTATCTGCTCAGACAAGACTGGTACACTTACAACAAACCAGATGTCAGTCTGCAGGATGTTTATTCTGGACAG
AGTGGAAAGGTGATACTTGTTCCCTTAATGAGTTTACCATAACTGGATCAACTTATGCACCTATTGGAGAAGTGCA
TAAAGATGATAAACCACTGAATTGTACACAGTATGATGGTCTGGTAGAATTAGCAACAATTTGTGCTCTTTGTAA
TGACTCTGCTTTGGATTACAATGAGGCAAAGGTGTGTATGAAAAAGTTGGAGAAGCTACAGAGACTGCTCTCAC
TTGCCCTAGTAGAGAAGATGAATGTATTTGATACCGAATTGAAGGGTCTTTCTAAAATAGAACGTGCAAAATGCCTG
CAACTCAGTCATTAAACAGCTGATGAAAAAGGAATTCACTCTAGAGTTTTCACGTGACAGAAAGTCAATGTCGGT
TTACTGTACACCAATAAACCAAGCAGGACATCAATGAGCAAGATGTTTGTGAAGGTGCTCCTGAAGGTGTCAT
TGACAGGTGCACCCACATTGAGTTGGAAGTACTAAGGTTCTATGACCTCTGGAGTCAAACAGAAGATCATGTC
TGTCATTGAGAGTGGGGTAGTGGCAGCGACACACTGCGATGCCTGGCCCTGGCCACTCATGACAACCCACTGAG
AAGAGAAGAAATGCACCTGAGGACTCTGCCAATTATTAATATGAGACCAATCTGACCTTCGTTGGCTGCGT
GGGCATGCTGGATCTCCGAGAATCGAGGTGGCCTCTCCGTGAAGCTGTGCCGGCAAGCAGGCATCCGGGTCT
CATGATCACTGGGGACAACAAGGGCACTGCTGTGGCCATCTGTGCCGATCGGCATCTTCGGGCAGGATGAGGA
CGTGACGTCAAAGCTTTCACAGGCCGGGAGTTTGATGAACCTCAACCCCTCCGCCAGCGAGACGCTGCTGAA
CGCCCGCTGTTTTGCTCGAGTTGAACCTCCACAAGTCTAAAATCGTAGAATTTCTTCAGTCTTTTGATGAGAT
TACAGCTATGACTGGCGATGGCGTGAACGATGCTCCTGCTCTGAAGAAAGCCGAGATTGGCATTGCTATGGGCTC
TGGCACTGCGGTGGCTAAAACCGCCTCTGAGATGGTCTGGCGGATGACAACCTTCTCCACCATTGTGGCTGCCGT
TGAGGAGGGGCGGGCAATCTACAACAACATGAAACAGTTTCATCCGCTACCTCATCTCGTCCAACGTGCGGGAAGT
TGTCTGTATTTTCTGACAGCAGCCCTTGGATTTCCCGAGGCTTTGATTCTGTTTCACTGCTCTGGGTCAATCT
GGTGACAGATGGCCTGCCCTGCCACTGCACTGGGGTTCAACCCCTCCTGATCTGGACATCATGAATAAACCTCCCCG
GAACCCAAAGGAACCAATTGATCAGCGGTGGCTCTTTTCCGTTACTTGGCTATTGGCTGTTACGTGCGCGCTGC
TACCGTGGGTGCTGCTGCATGGTGGTTTATTGCTGCTGACGGTGGTCCAAGAGTGTCTTCTACCAGCTGAGTCA
TTTCTTACAGTGTAAGAGGACAACCCGGACTTTGAAGGGCTGGATTGTGCAATCTTTGAATCCCCATACCCGAT
GACAATGGCGCTCTCTGTTCTAGTAATATAGAAATGTGTAACGCCCTCAACAGCTTGTCCGAAAACCACTGCTT
GCTGAGGATGCCCCCTGGGAGAACATCTGGCTCGTGGGCTCCATCTGCCTGTCCATGTCACTCCACTTCCCTGAT
CCTCTATGTGCAACCCCTTGCCACTCATCTTCCAGATCACACCGCTGAACGTGACCCAGTGGCTGATGGTGTGAA
AATCTCCTTGCCCGTATTCTCATGGATGAGACGCTCAAGTTTGTGGCCGCAACTACCTGGAACCTGGTAAAGA
GTGTGTGACGCTGCCACCAATCTGCTCGTTCTCGGCATGCACCGATGGGATTTCTGGCCGTTTGTGCTGCT
CATAATGCCCTGGTGATCTGGGTCTATAGCACAGACACTAATTTAGCGATATGTTCTGGTCTTGAAGTACAGT
TTTCCATAAAGAAGATGTTTAACTTAATCAATTAATTTTTTATTGTTTAAAGCAACTGTCTATTTCTGCTGAAT
TTTACATGAACATACTGGCTGGTGTGAGGTTTCACTCTAGATTTTGTGTTTGTCTTTTCTGACTCCAGTGG
GGCAAGATTTTCTTTTTTATACACATAATTAAGTGTCCATTGACATGTACAGAGAACTAACACTATTTTATGC
AAATATTTTTTTGTAGATGAAAAAGCATGTACAGTGTCTGTTTAACTCATCCTTGATAAAAAAATAGTTG

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FIGURE 788B

AGCCAGCAGACATTGTCAGCAAATTAATTGGCAGCAGATTTAGGAAATGAATGTGTGTGGTTTTTTTTCTAAAA
CTAAATAGCATGTATTGTGTCTTTTGATGATGATCCGGATTTAATTGATATCACAGTCTAATTTTTATTCTATA
AGCCAATTTTTCTGCACCTGAGCAGAGTCTTGCTACCTCAGTCAGTATTGTTTTGGTTTGCTACTTCCCTCACCCA
CTTTGGCCTCCGTTACCCCCACCCACCCACCTCTCCCCACCTTACCCCCGCCCCGCTTGGCTTCTTCTTTAGG
ATTGTGATGGTTCGTTCTGTTTACATCAGTTTTAACGAGAGGTATGCCTGTACTCGCTTGTGCAGAAAACATTGT
TCCAGATTCAATCGACTGGGTTTATGTCCCTTCACATAGTTTTTAAGGTTATTTATTTAAATGCTAATGTATTT
TATTGTAACAGACATTGTTTTGCCAACATTGCCTATTTTCACTGGCACGTCATCTAGTTTTAAAAAATAAAACAT
TTTAAAAAG

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FIGURE 789

MENAHKTVEEVLGHFGVNESTGLSLEQVKLKERWGSNELPAEEGKTLLLELVIEQFEDLLVRILLLAACISFVL
AWFEEGEETITAFVEPEFVILLILVANAIVGVWQERNAENAIEALKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDI
VEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVA
TGVNTEIGKIRDEMVAEQERTPLQQKLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAIYYFKIAV
ALAVAAIPEGLPAVITTCLALGTRMAKKNAIVRSLPSVETLGCTSVICSDDKTGTLTTNQMSVCRMFIIDRVEGD
TCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDALDYNEAKGVYEKVGGEATETALTCLVE
KMNVDTELKGLSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMSKMFVKGAPEGVIDRCT
HIRVGSTKVPMTSGVKQKIMSVIREWGSSTLRLALATHDNPLRREEMHLEDNANFIKYETNLTFVGCVGMLD
PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKFTGREFDELNPSAQORDACLNARCF
ARVEPSHKSKEVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMSGTAVAKTASEMVLADDNFSTIVAAVEEGR
AIYNNMKQFIRYLISNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMNKPPRNPKE
PLISGWLFERYLAIGCYVGAATVGAAAWWFIAADGGPRVSFYQLSHFLQCKEDNPDGEGVDCIFESPYPMTMAL
SVLVTIEMCNALNSLSENQSLRMPPWENIWLVGSIKLSLHFLILYVEPLPLIFQITPLNVTQWLMVLKISLP
VILMDETLKFVARNYLEPGKECVQPATKSCSFSACTDGISWPFVLLIMPLVIWVYSTDTNFSDFMFS

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FIGURE 790

GGCACGAGGGCTGAGAAGAGTTTTCACGTGGATCGCCGTTTCGGGTGGGCGAGATGGAGACAGCCCCAAGCCGG
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGGCGATACTGGGAGGAAGAGA
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCCTCCTCGTAACAAGAAGAATCGGGAGCTCCGTCTCAGAGAC
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCGAAGAAACCCCGAGAATGGA
AGAACCCGGAGTCCCAGCGCGGCTTGTCGGGGGCCAAGATCCATTCCAGGCCCGCCCCGTCCTGTGGAAG
TGGTCCAGAAGTTCTGTGCGATTGACAAATCCCGAAAGCTACCACATTCTAAAGCCAAACTCGAAGCCGACTTG
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAAGCTGCTCGTTCTGAGCTGCTGCTGAAGAACCTG
GGTTTCTGGAAGGGGAGGATGGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGCAGTTTGACCCCTACAGACTAAACTACTCTCGAAGTGGAA
GACACCTGGCTTTTGGAGGGCGCCGAGGTCATGTGGCTGCCCTTGATTGGGTAAACAAAGAAGCTTATGTGCGAGA
TCAACGTATGGAGGCGGTGCGGACATCCGTTTCTCCATTCTGAGGCACTGCTTGTGTTGCTCAGAACCGCT
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT
TCCTGCCCTTCCACTTCTCTGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTCACTGGGGA
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCCTTACAATGCCGTATCC
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTGTGTC
ATCGTGGTGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC
TGAAGATCTTTGACTTGCGAGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCCATGGAGCAGGGCACCTGG
CCTTCTCCCAGAGGGGACTGCTGTTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA
GCCACCCTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCT
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCACT
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG
GCCGCAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTTCATGGATGAGGAACACAGGGACAAGGTCCGGC
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCCACGGGGGCCCGGCCATCTGCCCTGGACAGAT
TTGTGCGCTGAGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCAAGATCACCTGTAGGGAAATGAGTGTT
CCCTGGAACAAGGAGGTGGGGGAGTGTGGCCCTTCCCCAACTGGGGGTGGACAGCTGTCTCTGGGGTGGGT
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 791

METAPKPGKDVPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRI SKKPQV
PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSRKLP HSKAKTRSRLEVAEAE EEEETS IKAARSE
LLLAEEP GFLEGEDGEDTAKICQADIVEAVD IASAAKHFDLNL RQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFL LATASETGFLT
YLDVSVGKIVAALNARAGRLDVMSQNPYNAV IHLGHSNGTVSLWSPAMKEPLAKILCHRG GVRAVAVDSTGT YMA
TSGLDHQLKIFDLRGTYQPLSTR LPHGAGHLAFSQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV
HGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRQEW EVKALLEKVP AELICLDPRALAEVD
VISLEQGKKEQIERLGYDPQAKAPFQPKPKQKGRSSTASLVKRRKVMDEEHRDKVRQSLQQQHKEAKAKPTGA
RPSALDRFVR

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FIGURE 792

GAGCTAGCTTTGCAATATGCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTTCAGTGGGACTTGCTTCACGTCCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAATCCGGGGAGCCAAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACCTCCATTAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAGTAGAGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCCTCCATTCTCTGCACTTGACAGCTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCCAAGCCAAAATT
TTGACATTTGAGTGCTTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTACGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTTACCCTGTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGCTGGGGTGGGGGAAGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 793

MAAEADGPLKRLVPIILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAKSAEGLS
LQSVMLELVALTGTMVYSITNNFPFSSWGEALFMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVAVVGRLLQAATNYHNGYTGQLSAITVFLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 794

GGTACGTGCGCTCGCGGTTCTCTCGCGGAGGTGCGCGGTGGCGGGAGCGGGCTCCGGAGAGCCTGAGAGCACGGT
GGGGCGGGGCGGGAGAAAAGTGGCCGCCCGGAGGACGTTGGCGTTTACGTGTGGAAGAGCGGAAGAGTTTGTCTT
TCGTGCGCGCCTTCGAAAAGTGCCTGCCGCTGCTGAGGAGTCCACCCGAAACCTCCCTCCTCCGCCGGCAGCC
CCGCGCTGAGCTCGCCGACCCAAGCCAGCGTGGGCGAGGTGGGAAGTGCGCCCGACCCGCGCCTGGAGCTGCGCC
CCCCAGTGCCCCATGGCTACAAGGGTGTGAGCATGAGCGCCCGCTGGGACCCGTGCCCCAGCCGCGCGCGCCG
AGGACGAGCCGGTGTTCGCGCAGCTCAAGCCGGTGTGGGCGCCGGAATCCGGCCCGCGACGCGGCGCTCTTCC
CCGGCGAGGAGCTGAAGCACGCGCACCAACCGCCCGCAGGCGCAGCCCGCGCCCGCGCAGGCCCGCGACCGGCC
AGCCGCCCGCCACCGCCCGCGGCTGCCTCCAGAGGACCTGGTCCAGACAAGATGTGAAATGGAGAAGTATCTGA
CACCTCAGCTTCTCCAGTTCTTATAATTCCAGAGCATAAAAAAGTATAGACGAGACAGTGCCTCAGTCGTAGACC
AGTTCTTCACTGACACTGAAGGGTTACCTTACAGTATCAACATGAACGTCCTTCTCCCTGACATCAGTCACCTGA
GAACTGGCCTCTACAAATCCAGAGACCGTGCCTAACACACATCAAGACAGAACCTGTTGCCATTTTCAGCCACC
AGAGTGAAACGACTGCCCCCTCTCCGGCCCCGACCCAGGCCCTCCCTGAGTTCACCACTATATTACAGCTCACACC
AGACCGCAGCTCCAGAGGTGAACAATATTTTCATCAAAACAAGAACTTCTACACCAGATCTTCATCTTTCTGTCC
CTACCCAGCAGGGCCACCTGTACCACTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGACAG
CAGCAATGGACACTCTTAATGTTTCTATGTGAGTGCCTGAGGCGCTTAACACACACACCTCTGCTGTTCCGC
AGACTGCAGTGAACAATTCAGGGCATGCCCCCTTGACATACACAATGCCAAGTCAGTTTCTTCCACAACAGG
CCACTTACTTTCCCCCGTCAACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATT
TAACCCACCTCCATCTATGCTGCTACAATTGCTTCTAACTGGCAATTCACAATCCAAATTTACCCACACCC
TGCCAGTTAACTCACAAAACATCCAACCTGTGAGATACAATAGAAGGAGTAACCCCGATTGGAGAAACGACGCA
TCCACTACTGCGATTACCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTAAAAAGCTCACCTGAGGACTC
ACACTGGTGAAGGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGGTTTCGCGCATCGGATGAGCTGACCC
GCCACTACCGGAAGCACACAGGCGCCAAGCCCTTCCAGTGCGGGGTGTGCAACCGCAGCTTCTCGCGCTCTGACC
ACCTGGCCCTGCATATGAAGAGGCACCAGAAGTGCAGCTGCCCCGTGTGACCCGTTCCAGGTCCCTGGGCTCCC
TCAAATGACAGACCTAACTATTCTGTGTAACAAACAACAAAAACAAAAACAAAGAAACCACAACATAAAC
TGGAATGTATATTTTGTATATTTGAGAAAACAGGGAATACATTGTATTAATACCAAAGTGTTTGGTCATTTTAA
GAATCTGGAATGCTTGTGTAATGTATATGGCTTTACTCAAGCAGATCTCATCTCATCTCATGACAGGCAGCCAG
TCTCAACATGGGTAAGGGGTGGGGGTGAAGGGGAGTGTGTGACGCTTTTACCTAGGCACCATCATTTAATGTG
ACAGTGTTCAGTAAACAAATCAGTTGGCAGGCACCAGAAGAAGATGGATTGTATGTCAAGATTTTACTTGGCAT
TGAGTAGTTTTTTTTCAATAGTAGGTAATTCCTTAGAGATACAGTATACCTGGCAATTCACAAATAGCCATTGAAC
AAATGTGTGGGTTTTTAAAAATTATATACATATATGAGTTGCCTATATTTGCTATTCAAAATTTTGTAAATATGC
AAATCAGCTTTATAGGTTTATTACAAGTTTTTTAGGATTCTTTTGGGGAAGAGTCATAATTCTTTTGAAAAAAC
CATGAATACACTTACAGTTAGGATTTGTGGTAAGGTACCTCTCAACATTACCAAAATCATTTCTTTAGAGGGAAG
GAATAATCATTCAAATGAACTTTAAAAAGCAAATTCATGCACTGATTAAATAGGATTATTTTAAATACAAAA
GGCATTATATGAATTATAAAGTGAAGAGCTTAAAGATAGTTACAAAAATACAAAAGTTCAACCTCTTACAATAA
GCTAAACGCAATGTCAATTTTAAAAAGAAGGACTTAGGGGTGCTTTTCACATATGACAATGTTGCATTTATGATG
CAGTTTCAAGTACCAAAACGTTGAATTGATGATGAGTTCATATATCGAGATGTTGCTCGTGCAGTACTGT
TGGTTAAATGACAATTTATGTGGATTTTGCATGTAATACACAGTGAACACAGTAATTTTATCTAAATTACAGTG
CAGTTTAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATATAAATGATATGTTGAAAACCTTAAGGAAG
CAAATGCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAAGGGCAGATAAATAAGC
AAAATGCCAAAAGGGGCTTAATTGAAATGAAAATTTAATTTTGTGTTTTTAAATATTGTTTATCTTTATTTATTT
TGTGGTAATATAGTAAGTTTTTTTGAAGACAATTTTCACTGATAAATTATAGTTTTGTTTGTGTTAGAAAAG
TTGCTCTTAAAGATGTAAATAGATGACAAACGATGTAAATAATTTGTAAGAGGCTTCAAAATGTTTATACGTG
GAAACACACCTACATGAAAAGCAGAAATCGGTTGCTGTTTTGCTTCTTTTCCCTCTTATTTTGTATTGTGGTC
ATTTCTATGCAATAATGGAGCAACAGCTGTATAGTTGTAGAAATTTTGTAGAGAATGAGATGTTTATATATT
AACGACAATTTTTTTTTTGGAAAATAAAAAAGTGCCTAAAGAAAAA

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FIGURE 795

MATRVLSMSARLGVPVQPPAPQDEPVFAQLKPVLGAAANPARDAALFPGEELKHAHRPQAQAPAPAQAPQPAQPPA
TGPRLPPEDLVQTRCEMEKYLTQQLPPVPIIPEHKKYRRDSASVVDQFFTDTEGLPYSINMNVFLPDITHLRTGL
YKSQRPCVTHIKTEPVAIFSHQSETTAPPPAPTQALPEFTSIFSSHQTAAPEVNNIFIKQELPTPDLHLSVPTQQ
GHLYQLLNTPDLDMPSSTNQTAAMDTLNVSMSAAMAGLNHTSAVPQTAVKQFQGMPPCTYTMPSQFLPQQATYF
PPSPPSSEPGSPDRQAEMLQNLTPPPSYAATIASKLAIHNPNLPTTLPVNSQNIQPVRYNRRSNPDLEKRRIHYC
DYPGCTKVYTKSSHLKAHLRTHTGKPYKCTWEGCDWRWFARSDELTRHYRKHTGAKPFQCGVCNRSFSRSDHLAL
HMKRHQN

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FIGURE 796

CGTTTTCCGCTCCTCGCTACGTCATCGTTGTGAGCCCGCTATCAGCGGCCAGCGCGGGCGGGCCGGAGACCGTG
GGGCCCCCGGTTGCCGCCCCCTCGGGAGCCACCATGTTGGTGATACCCCCCGGACTGAGCGAGGAAGAGGAGGCT
CTGCAGAAGAAATTCAACAAGCTCAAGAAAAAGAAAAAGGCATTGCTGGCTCTGAAGAAGCAAAGTAGCAGCAGC
ACAACCAGCCAAAGTGGTGTCAAACGCTCACTATCAGAGCAGCCTGTCATGGACACAGCCACAGCAACAGAGCAG
GCAAAGCAGCTGGTGAAGTCAGGAGCCATCAGTGCCATCAAGGCTGAGACCAAGAAGCTCAGGCTTCAAGCGTTCT
CGAACCCTTGAGGGGAAGTTAAAGGACCCCGAGAAGGGACCAAGTCCCCACTTTCCAGCCGTTCCAGAGGAGCATA
TCTGCTGATGATGACCTGCAAGAGTCATCCAGACGTCCCCAGAGGAAATCTCTGTATGAGAGCTTTGTGTCTTCT
AGTGATCGACTTCGAGAACTAGGACCAGATGGAGAAGAGGCAGAGGGCCAGGGGCTGGTGATGGTCCCCCTCGA
AGCTTTGACTGGGGCTATGAAGAACGCAGTGGTGCCCACTCCTCAGCCTCCCCCTCCCCGAAGCCGCAGCCGGGAC
CGCAGCCATGAGAGGAACCGGGACAGAGACCGAGATCGGGAGCGGGATCGAGACCGGGATCGAGACAGAGACAGA
GAGCGGGACAGGGATCGGGATCGGGATCGAGATCGAGACCGGGAACGGGACAGGGATCGGGAGCGGGATCGAGAC
CGAGACCGAGAGGGTCCTTTCCGCAGGTGGGATTCATTCCCTGAACGGCGAGCCCCCTAGGAAAGGGAATACTCTC
TATGTATATGGAGAAGACATGACACCCACCCTTCTCCGTGGGGCCTTCTCTCCTTTTGAAACATCATTGACCTC
TCCATGGACCCACCCAGAACTGTGCCTTCGTACCTATGAAAAGATGGAGTCAGCAGATCAGGCCGTTGCTGAG
CTCAACGGGACCCAGGTGGAGTCTGTACAGCTCAAAGTCAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCT
ACTGGCAAGTCTGTCTGGGGCTCCCTCGCTGTCCAGAACAGCCCTAAGGGTTGCCACCGGGACAAGAGGACCCAG
ATTGTCTACAGTGATGACGTCTACAAGGAAAACCTTGTGGATGGCTTCTAGGGAACAGAGCTGGATTCTTGTGC
CTCATATGCCCCAATGCTGGTCTCAGTAAACACTGAGGTGGAAGCTTACACATCTCCCTCAGCCTCTGGTTTTT
CAGCACTTGGGATTGGGGTTAAGCCTTTAAAAACGGCTGTGAGGTTTGATCTCAGTGAACGACATGGCCAGTGC
CTGTTCCCCACTCCCTTGCCCCAAAAGGATCTGGAACAC

FIGURE 797

MLVIPPGLSEEEALQKKFNKLKKKKKALLALKKQSSSTTSQGGVKRSLSEQVMDTATATEQAKQLVKSGAIS
AIKAETKNSGFKRSRTLEGKLKDPKGPVTFQPFQRSISADDDLQESSRRPQRKSLYESFVSSSDRLRELGPDG
EEAEGPGAGDGPFRSFDWGYEERSGAHSSASPPRSRSDRSHERNRDRDRDRERDRDRDRDRDRERDRDRDRDR
RDRERDRDRERDRDRDREGPFRSDSFPERRAPRKNTLYVYGEDMTPTLLRGAFSPFGNIIDLSMDPPRNCAFV
TYEKMESADQAVAEELNGTQVESVQLKVNIAKQPMLDAATGKSVWGS LAVQNSPKGCHRDKRTQIVYSDDVYKEN
LVDGF

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FIGURE 798

GTCATGCAGTGCGCCGGAGAACTGTGCTCTTTGAGGCCGACGCTAGGGGCCCGGAAGGAAACTGCGAGGCGAAGG
TGACCGGGGACCGAGCATTTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGGTG
TGTCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTACCAAGGCCTCCCTGTTGTGAAGAATTCCATC
ACGAAGAATCAATGGCTGTAAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGGAGA
ACTGGCCAAGAAGCTCAAAGAGGCAGCATTTGGAACCATCGATGGAAAAAATATTTAAAAATTGATCAGATGGGAAGA
TGGTTTGTGCTGGAGGGGCTGCTGTTGGTCTTGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGATT
GGAGCTATTGAAAAGGCTGTAAATTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAGCA
GGGAGTATTGGTTTAACAGCTTTGTCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTCATGATGAGA
GGCTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCATAT
GACCAGAGCCCAGGCCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTCTG
ACAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCTCTCCACTGTG
GCCATGTGTGCGCCCAAGTGAAGTTTCTGAACATGGGTGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTGTG
TCCTCATTGGGATCTATGTTTCTCCACCTACCACCGTGGCTGGTGCCACTCTTTACTCAGTGGCAATGTACGGT
GGATTAGTTCTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAGTATCAAGCGTGCAGAAGTATCACCAATGT
ATGGAGTTCAAAAATATGATCCCATTAACTCGATGCTGAGTATCTACATGGATACATTAAATATATTTATGCGAG
TTGCAACTATGCTGGCAACTGGAGGCAACAGAAAGAAATGAAGTGACTCAGCTTCTGGCTTCTCTGCTACATCAA
ATATCTTGTTTAAATGGGGCAGATATGCATTAAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATAAGA
AACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTCTGGAGAATAAATGCAG
TAATCCTCTCCCAAATAAGCACACACATTTCAATTCTCATGTTTGAGTGATTTTAAATGTTTTGGTGAATGTG
AAAATAAGTTTGTGTCATGAGAATGAAGTCTTTTTTCTACTTTAAATTTAGTAGGTTCACTGAGTAACTAA
AATTTAGCAAACCTGTGTTTGCATATTTTTTGGAGTGCAGAATATTGTAATTAATGCATAAGTGATTGGAGC
TTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTAAATACTTAGAACTTAGCACTTGT
GTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGTATTTGGAAACAAGTGGTCATTGTTACATTATCTGCTG
TGAACCTAACAAAAGTTCATCCTGAAACAGGCACAGGTGATGCATTCTCTGCTGTGCTTCTCAGTGCTCTC
TTTCCAATATAGATGTGGTCATGTTTGACTTGTACAGAATGTTAATCATACAGAGAATCCTTGATGGAATTATAT
ATGTGTGTTTTACTTTTGAATGTTACAAAAGGAAATACTTTAAACTATTCTCAAGAGAAAATATTCAAAGCAT
GAAATATGTTGCTTTTTCCAGAATACAAACAGTATACATGAATTGCTAAGTGTTTTTTATTTTTGCATATTT
ATTGAACTGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTCTT
TGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTCTCGCATTGCCTCTCAGACTA
AGCACTAAAAAGCAAAGCAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGTAATGAGGAA
AATGCTTCATTAGTTTCCCTAGCAGACTTTTACTTCTTACACTGCTACACCATTACTTTCTTGAGACATTTG
TAAGTCCTTTGATACAGAAGAGTTATATTTAGGAGGCTTTAATGAAGG

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FIGURE 799

MLAARLVCLRTLPSRVFHPAFTKASPVVKNSITKNQWLLTPSREYATKTRIGIRRGRTGQELKEAALEPSMEKIF
KIDQMGRWFWAGGAAVGLGALCYGLGLSNEIGAIEKAVIWPQYVKDRIHSTYMYLAGSIGLTALSAIAISRTPV
LMNFMMRGSWVTIGVTFAAMVGAGMLVRSIPYDQSPGPKHLAWLLHSGVMGAVVAPLTLGGPLLIRAAWYTAGI
VGGLSTVAMCAPSEKFLNMGAPLGVGLGLVFVSSLGSMFLPPTTVAGATLYSVAMYGGLVLFSMFLLYDTQKVSS
VQKYHQCMEFKNMIPLTRC

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FIGURE 800

ATGCGTGAGTGCACTCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGC
CTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGATTCTTCAAC
ACCTTCITCAGTGAAACGGGTGCTGGCAAGCATGTGCCCCGGGCAGTGTGTTGTAGACTTGGAAACCCACAGTCATT
GATGAAGTTCGCACTGGCACTTACCGCCAGCTCTTCCACCCTGAGCAACTCATCACAGGCAAGGAAGATGCTGCC
AATAACTATGCCCGAGGGGCACTACACCATTGGCAAGGAGATCATTGACCTCGTGTTGGACCGAATTGCAAGCTG
GCTGACCAGTGACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAC TGGTTCTGGGTTCAAC
TCGCTGCTCATGGAACGTCCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATTTACCCGGCGCCC
CAGGTTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCACTCTGATTGT
GCCITTCATGGTAGACAATGAGGCCATCTATGACATCTGTCTGAGAAACCTCGATATCGAGCGCCCAACCTACACT
AACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTT
GACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTG
ATCTCTGCTGAGAAAGCCTACCATGAACAGCTTACTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAAC
CAGATGGTGAAATGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTATACCGTGGTGACGTGGTTCCC
AAAGATGTCAATGCTGCCATTGCCACCATCAAAACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGC
TTCAAGGTTGGCATTAAATTACCAGCCTCCCACTGTGGTGCTGGCGGAGACCTGGCCAAGGTACAGAGAGCTGTG
TGCATGCTGAGCAATACCACAGCTGTTGCCGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCC
AAGCGTGCCTTTGTTCAGTGGTACGTGGGTGAGGGGATGGAGGAAGCGAGTTTTCAGAGGCCCGTGAGGACATG
GCTGCCCTTGAGAAGGATTATGAGGAGGTTGGAGCAGATAGTGCTGACGGAGAGGATGAGGGTGAAGAGTATTTAA

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FIGURE 801

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHSFGGGTSGFT
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIHFPLATYAPVISA EKAYHEQLTVAEITNACFEFAN
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAVAEAWARLDHKFDL MYAKRA FVHWYVGE GMEEGEFSEAREDMAALEKDYE EVGADSADGEDEGE EY

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FIGURE 802

GGGGCTACCGCGCCTTTGCTTCCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCACCATCCTGCCTACTACGTGCT
GCCCTGCGCCCGCAGCCATGTGCCGCACCCTGGCCGCCCTTCCCCACCACCTGCCTGGAGAGAGCCAAAGAGTTCA
AGACACGTCTGGGGATCTTTCTTCAAAATCAGAGCTGGGCTGCGATACTGGGAGTACTGGCAAGTCCGAGTGGG
GCAGTAAACACAGCAAAGAGAATAGAACTTCTCAGAAGATGTGCTGGGGTGGAGAGAGTCGTTTCGACCTGCTGC
TGAGCAGTAAAAATGGAGTGGCTGCCCTTCCACGCTTTCCTGAAGACAGAGTTCAGTGAGGAGAACCTGGAGTTCT
GGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCAGGGCACACCAGATCTTTGAGG
AGTTTCATTGTCAGTGAGGCCCTTAAAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACGAGGATGAACCTGC
AGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGTACCCTGATGGAGAAGGACTCCTACCCAC
GCTTCCTGAAGTCGCTGCTTACCGGGACCTGGCTGCCCAAGCCTCAGCCGCTCTGCCACTCTGTCCAGCTGCA
GCCTGGACGAGCCCTCACACACCTTGAGTCTCCACGGCAGTGAGGAAGCCAGCCGGGAAGAGAGGTTGAGTCACCC
ATCCCGAGGTGGCTGCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAAGAGGACAAAAA
AAAAAATGCGCTCCAGCAGCCTGTTTGGGAAGCAGCAGTCTCTCCTTCAGATACTGTGGGACTCATGCTG
GAGAGGAGCCGCCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTGGTGGGGCTCTCTGTGGGGCAA
AAAGTGATGGGGTTAGCACTGGCTCTCGTTCTCACCGGAGAAGGAAGTGTCTAGTGTGGTTTAGGAAACA
TGTGGATAAAGGGAACCATGAAATGAGAGGAGGAAGACATCCAGATCAGCTGTTTTGCCTGTTGCTCAGTTGA
CTCTGATTGCATCCTGTTTTCTAATTCACAGACTGTTCTGGGCACGGAAGGGACCTGGATGTGGAGTCTTCCC
CTTTGGCCCTCCTCAGTGGCCTCTGGGCTAGCCAGAGTCCCTTAGCTGTACCTCGTAACACTCCTGTGTGTCT
GTCCAGCCTTGCACTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCATGCGAGATATTTATACCTCAA
CACTGGCCTGTGAGCCCTTTCCAAGTCAGTGGAGAGCCCTGAAAGGAGGCTCACTTGAATCCAGCTCAGTGCTCT
GGGTGGCCCCCTGCAGGTGGCCCTGACCCTGCGTTGCAGCAGGGTCCACCTGTGAGCAGGCCCGCCCTGGGGCC
TCTTCCTGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTGGAGGCAGGGCCAGGAGAACAAAGTGTGGAGGC
CTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGAGTGTGGAACAAGGCAGAAAAGGATCCTAGGAAATAAGTC
TCTTGGCGGTCCCTGAGAGTCTGTGAAATCCAGCCAGTGTTTTTTGTGGTATGAGAACAGGCAAAAAGAGATG
CCCCGAGATAGAAGGGGAGCCTTGTGTTCTTTCTGCAGACGTGAGATGAACACTGGAGTGGGCAGAGGTGGCM
CAGGACCATGGCACCTTAGAGTGAGAAGCTGGGGGAGAGGCTGCTTGAAGGGCAGGACTGGGGATACCTGC
CTGTACCTCAGGGCATCACTGAACAAACATTTCTGATGGSAACTCCTGCGGCAGAGCCCAGGCTGGGGAAGTG
AACTACCCAGGGCAGCCCCCTTGTGGCCAGGATAATCAACACTGTTCTCTGTACCATGAGCTCCTCCAGGAG
ATTATTTAAGTGTATTGTATCATTGGTTTTCTGTGATTGTACATAACATTGTTTTTGTATTGTTGGTGCTGTGT
TATTTATTATTGTAATTCAGTTTGCCTCTACTGGAGAATCTCAGCAGGGGTTTCAGCCTGACTGTCTCCCTTC
TCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGAGCCTGTGAGGAACCTCCTACTGTTTAAATATTT
ATTTATTGTGACAAATGGAGCTGGTTTCTAGATATGAATGATGTTTGCAATCCCCATTTTCTGTTTCAGCATG
TTATATTCTTATAAAATAAAAGCAAAAGTCAAATATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 803

MCRTLAAFPITCLERAKEFKTRLGIFLHKSELGCDTGSTGKSEWGSKHSKENRNFSEDVLGWRESFDLLLSSKNG
VAAFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHQIFEEFICSEAPKEVNIDHETRELTRMNLQTATAT
CFDAAQGKTRILMEKDSYPFLKSPAYRDLAAQASAASATLSSCSLDEPSHT

GGATCCGCGCGGCACACGATGCGACGCGCGCTGATGAAGTTTCGTTTACCGGTTTTCAAATTTGCTGGGTACCGGTGTA
CCGGCGTGGGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATT
TGACCTTAAAAACAACAATCTGCACACGCTGCCCTGGCCACTCGGTACAACGTCAGTGCGTGGGGCTGTCCCC
GGATGGCCGCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCT
GCACCACCTTCCACTTCAAGGGCTCTGTGCACAGTGTGCTTCTCCCTGATGGCAGGAAGTTTGTGTGCACAA
GGGTAACATTGCCCAGATGTATCATGCCCTGGGAAGAAGCGGGAGTTCAACGCTTTCGTTCTGGACAAGACCTA
TTTTGGGCCCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGA
CATGTCCACCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACCTGGGGGGACATAAGGATGC
CATCGTGGCCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGTCTGTGCATGTG
GCAGTGTGACACGCCCCCGAGGGCTTGGCGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGA
GGAGGAAGAGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGA
GGAGGAGAAGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAAACA
CCTGACAGCTGCAGCATTTTATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCA
TGAGCTGCCAGAGTTTAACTCATCCACTCCCTGAGCATCTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAG
CTCGGGGGACTGGATTGCTTTTGGCTGTTACGGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTTA
CGTGCTCAAGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCCGACGACAGTACATCGTGAC
TGGCGGGGACGACGGCAAGGTCAAGGTGTGGAATACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACT
CAGCGGGGTGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCG
AGCCTTTGACCTTCACAGGTACCGAACTTCCGCACCTTCACTCTCCAGCCCCACCCAGTTCTCCTGTGTGGC
GGTGGATGCGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGAC
AGGCAGGCTCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGT
CCTGGCCAGTGCCCTCTGGGACAAGACGGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCT
GGCCTTGACCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCGGAGCTGGCTGTGGCCACACTGAACTC
ACAGATCACCTTCTGGGACCTTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGG
CAGGAAGGAGCTGGACAAGATTACAGCCAAGCAGCGGCCAAGGGGAAGGCCTTACCGCCCTGTGCTACTCTGC
AGACGGCCACAGCATCTTGCGGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCAT
GAAGAGGTTTCGAGATCTCTTGCAACCTGTCTCTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGA
GTTTGGCAACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCGCGATACCACTGCCAGGCGTCAG
GAAAGGTGACATGAGTTCTCGGCACCTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCG
CTGTGGGCGGGCACCACCAGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGA
GCTGGACACCAGCGTCACCCCCGGGAGGGTGC GCGAGGCACTGCGCCAGCAGGACTTACCAGGGCCATCCTCAT
GGCCTCCGGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCCAGGGGCGAGATTGAAGTGT
CACCTCCTCCCTTCTTGAACCTGTATGTGGAGAAAGTGTCTGGAGTTTTAGCTTCTCTCTTGAAGTGTCTCGCCA
CCTGGAATTTTACCTCCTCTGGACTCACAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCTCAGAGCCGGAC
GCTGCTGCCGTGTCACTCAGTTCTCCAGAGAGCATCCAGCGCACCTGGACGACCTGTGCAAACTCTGTAGCTG
GAACCACTATAACATGCAGTACGCATAGCATGAGATTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGG
AAGTGAGGAGGAGGCGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCGAGAGACTCAGAAGA
AGAGATGCTGGCCCTAGAGCCAGCCGGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCC
TTGTGCCACCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGC
TTTTCTGTGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCCGGCACGCACTGGCAC
CTGGCCCCAGGAGCGGGCCCGTGTGAACGGTGTGAATGTTGAAAATGCGTCTCAGAGAGGTATTACATGAAC
TTGTATGAGACTTAATTTATATTTTTTAACATAAAGGTTTGATAAAGAAGTTAGGGATTAAAAAAAAGATGGAGTTT
TCTAACGTGAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 805

MKFAYRFSNLLGTVYRRGNLNFTCNNGNSVISPVGNRVTVFDLKNNKSDTLPLATRYNVKCVGLSPDGRLAIIVDE
GGDALLVSLVCRSVLHHFHFHFKGSVHSVSFSPDGRKFVVTKGNI AQMYHAPGKKREFNAFVLDKTYFGPYDETTCI
DWTTDSRCFVVGSKDMSTWVFGAERWDNLIYYALGGHKDAIVACFFESNSLDLYSLSQDGVLCMWQC DTPPEGLR
LKPPAGWKADLLQREEEEEEEEDQEGDRETTIRGKATPAEEKTGKVYSRLAKYFFNKEGDFNNLTAAAFHKKS
HLLVTGFASGIFHLHELPEFNLIHSLISDQSIASVAINSSGDWIAFGCSGLGQLLVWEWQSESYVLKQQGHFNS
MVALAYSPDGQYIVTGGDDGKVKVWNTLSGFCFVTFTEHSSGVTGVTFTATGYVVVTSSMDGTVRAFDLHRYRNF
RTFTSPRPTQFSCVAVDASGEIVSAGAQDSFEIFVWSMQTGRLLDVLSGHEGPISGLCFNPMKSVLASASWDKTV
RLWDMFDSWRKETLALTSDALAVTFRPDGAELAVATLNSQITFWDPENAVQTGSIEGRHDLKTGRKELDKITAK
HAAKGKAFTALCYSADGHSILAGGMSKFVCIYHVREQILMKRFEISCNLSLDAMEEFLNRRKMTEFGNLALIDQD
AGQEDGVAIPLPGVRKGDMSRHFKEIRVTSRFSPTGRCWAGTTTEGLLIYSLDTRVLFDPFELDTSVTPGRV
REALRQQDFTRAILMALRLNESKLVQEALEAVPRGEIEVVTSSLPELYVEKVLFLASSFEVSRHLEFYLLWTHK
LLMLHGQKLKSRAGTLLPVIQFLQKSIQRHLDL SKLCSWNHYNMQYALAVSKQRGTKRSLDPLGSEEEAEASED
DSLHLLGGGGRDSEEEMLA

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FIGURE 806

CCCCGCGGGCTGCAGCGAGCCAGGCATGCTCACTGGCGCAGGCCCGGCCGAGCCCGAGCAGGAAGCGCCGGCG
TAGGCGGCCCCCTGCGCTGCCAGCTGGAGCCGGGCGGAGCCAGCGCCCCGGCGCAGGGTGGCTCTGCCAGTCCCC
GCGCGCCTGGGCGGCCGACACGTGTCCAGGCGTCACGTCCGCGCGCGCCCCGGGGCTTGCGTCAGCGGCTGTT
CCAGAAGCGGGTGGGCCAGGGCTCTGCGCACCGCTGGGGTTTCGGGGCCCGGGACGCCGCCGGGAGGAGGGCACCG
CGCGGGGTCCGACGCGGAGGCGTGTCTGGAACGCCGGGGGCTGCGGAGTGCATCAGCGCGGTCCAGCCCTCCGCC
TGCCGGGCGCGGAGCGTCTCCGCCGCCCGGACCTGGGCTGGGCGCCGTGGCGTTGCCCTCGGAGCTCGCTGCCCGC
GGGCGCGCACCGCCTTGACCCGGGCGGCCCGCGGCAGGCAGGCGCCCGCAGTTCCATGGTTGGTTCGGAGCGC
GATGAGCCGCCCCGTCTCCACCGGCCCGAGCGCTAATAAACCTTGACGAAGCAGCCGCCCGCAGCCCCAGCA
CACTCCGTCCCCGGCTGCGCCCCCGCGCGGCCACCATCTCGGCTGCGGGCCCCGGCTCGTCCGCGGTGCCCGC
CGCGGCGCGGGTGTCTCGGGCCCCGGCGGCGCGGGGCCCGGCCGGTGTCCCGCAGCACACAGAGCTGAC
CTCGCTCTTCGAGTGTCCGGTCTGCTTTGACTATGCTCTGCTCCTATTCTGCAGTGCCAGGCCGGGCACCTGGT
GTGTAACCAATGCCGCCAGAAGTTGAGCTGCTGCCGACGTGCAGGGGCGCCCTGACGCCCAGCATCAGGAACCT
GGCTATGGAGAAGGTGGCCTCGGCAGTCTGTTTCCCTGTAAGTATGCCACCACGGGCTGTTCCCTGACCCTGCA
CCATACGGAGAAACCAGAACATGAAGACATATGTGAATACCGCCCCCTACTCCTGCCCATGTCTGGTGTCTCTG
CAAGTGGCAGGGGTCCCTGGAAGCTGTGATGTCCCATCTCATGCACGCCACAAGAGCATTACCACCCCTCAGGA
AGAAGACATCGTCTTTCTAGCTACAGACATTAACCTTGCCAGGGGCTGTCGACTGGGTGATGATGCAGTCATGTTT
TGGCCATCACTTCATGCTGGTGCTGGAGAAACAAGAGAAGTACGAAGGCCACCAGCAGTTTTTTGCCATCGTCTT
GCTCATTGGCACCCGCAAGCAAGCCGAGAACTTTGCCCTACAGACTGGAGTTGAATGGGAACCGGCGGAGATTGAC
CTGGGAGGCCACGCCCCGCTCGATTTCATGACGGTGTGGCTGCGGCCATCATGAACAGCGACTGCCTTGTTCGA
CACAGCCATAGCACATCTTTTGCAGATAATGGGAACCTTGGAATCAATGTTACTATTTCTACATGTTGTCCATG
ATGTGACTTCCGTAAACCTTCAAATTTATTTGGGCATACTGCTCTATGTTAATAAAGGTTTTTATAGATGTTTT
ATTCCATATGTCTTCACAAGTCAGGACCCACAATTACCCGTGTTTTGTTGAACAGCAGTGTCCCATCTGGCTTC
GACCCAACAAAGTTCATTAACCTGGGATGAATGGGGTGGCCTGTTGGTGATTGGATGCTGTTCTGTGATCTAA
AACAACCTCTTATTGAATTGTATTTACTCCCTAAACAACACTTGACAGGCTGTTGCACAGGGCTTCTATAGATCAG
TGTTTAGGAATGGGAGGCCCTTCTGCTGCCTTCCCATATTGGTCCCTTGACATTGACAAAAGCACAGTGAC
TGTCAGCAGATTCCCTTTACTTTTGTGGGAGGTAGGAATTGTTTTAATGCATTTTAAACAGTGTTTCTGAAA
TTGGATGGCTGGCTAATAGACACTGAATACCCGGAGTGCTTATCTTAAATTCAGATTAGGGAGCCTGCCAA
TTTAACAGTCTCATCAGTGATCTTTCAACAGTAATGTTTGAGAATTACTGGGTTAAATTGTGGAAAGGGTCCAGA
TTTTAAAGGTGCTTTAAGGTTGCCCTCTGCCGATACTGTTGTCTTTCTACTGTTTCATCCCCTAACTTCCCCCA
ACCCTCAAATTAACACTAGAACTATAGATCCACATGAACGCACGCCTGAGATTGGCCACTCACC

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FIGURE 807

MSRPSSTGPSANKPCSKQPPPPQHTPSPAAPPAAATISAAGPGSSAVPAAAAVISGPGGGGGAGPVSPQHHELT
SLFECPVCFDYVLPPILQCQAGHLVCNQCROKLSCCPTCRGALTPSIRNLAMEKVASAVLFPCKYATTGCSLT
HTEKPEHEDICEYRPYSCPCPGASCKWQGSLEAVMSHLMHAHKSITTLQEEDIVFLATDINLPGAVDWMMQSCF
GHHFMLVLEKQEKYEGHQFFAIVLLIGTRKQAE NFAYRLELNGNRRRLTWEATPRSIHDGVAAAIMNSDCLVFD
TAIAHLFADNGNLGINVTISTCCP

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FIGURE 808

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGGAGCGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACCTAACTGTATATAAGCAAAACAGAAGAGTCTTGTTCACAG
AAACTCTGGAGCTCCGTGGGCTTTTCTCTTCTTGTGAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCTTATTTTTTCCCTTAAGTAGCATTTATTCCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTTCTTAAGACGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTTCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTTCGAGACCAGCCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACCCAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 809

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEAEVS
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLDTLNLNCI

[illegible]

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FIGURE 810B

TATACAGCATGTGCTTGCAACTTAAATATAAGTTGGGTATGTGTAGTCTTTGCTATACCACTGACTGTATTGAAA
ACCAAAGTATTAAGAGGGGAAACGCCCCTGTTTATATCTGTAGGGGTATTTTACATTCAAAAATGTATGTTTTT
TTTCTTTTCAAAATTAAAGTATTTGGGACTGAATTGCACTAAGATATAACCTGCAAGCATATAATACAAAAAAA
ATTGCAAACTGTTTAGAACGCTAATAAAATTTATGCAGTTATAAAAATGGCATTACTGCACAGTTTTAAGATGA
TGCAGATTTTTTTACAGTTGTATTGTGGTGCAGAACTGGATTTTCTGTAACCTAAAAAAAATCCACAGTTTTAA
GGCAATAATCAGTAAATGTTATTTTCAGGGACTACATCCTGTCTTTAAAAAGAAATGAAAAGTAAATCTTACCAC
AATAAATATAAAAAATCTTGTCAGTTACTTTTCTTTTACATATTTTGCTGTGCAAAATTGTTTTATATCTTGAG
TTACTAACTAACCACGCGTGTGTTCCCTATGTGCTTTTCTTTTCAATTTCTGGTTATATCAAGAAAAGATA
ATCTACAATAATAACGGCATTTTTTTTTGATTCTGTAAAAAAA

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FIGURE 811

MASELAMNSDLPTSPLAMEYVND FDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGY PQQLNPEALGFSPEDAVEALISNSHQLQGGFDGYARGAQQAAAAAGAGAGASL
GGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFM

AATCGCGAAACCCGGCGAGCGGCGCGCTGGCTATCGAGCGAGCGGGGCGGAACCGGGAGTTGCGCCGCCGCTCGG
 GCGCCGGGCTCCGTCGCGGCCGACAGCCCGCGGGTTCGCCCTCCCGTGCCTCGCCCGCGGACACCCTGGCCGTGGA
 CACCCTGGCCGTGGGCACCCGCGGGGCGCGGCGCGGGCGCTGCGCGCGCGCGCGCGCGGCATGAAGGTCACGTGCG
 CTCGACGGGCGCCAGCTGCGCAAGATGCTCCGCAAGGAGGCGGCGCGCGCTGCGTGGTGCTCGACTGCCGGCCC
 TATCTGGCCTTCGCTGCCTCGAACGTGCGCGGCTCGCTCAACGTCAACCTCAACTCGGTGGTGCTGCGCGGGGCC
 CGGGGCGGCGCGGTGTGCGGCGCGTACGTGCTGCCGACGAGGCGGCGCGCGCGCGGTCTCTGCAGGAGGGCGCG
 GCGGCGCTGCGGGCCGTGGTGGTGCTGGACCAGGGCAGCCGCCACTGCGAGAAGCTGCGAGAGGAGAGCGCCGCG
 CGTGTCGTCTTCACTCGCTACTCGCTTGCTTACC CGCGCGCGCGGGTCTACTTCTCAAAGGGGGATATGAG
 ACTTCTACTCGGAATATCCTGAGTGTGCGTGGATGTAAAACCCATTTCACAAGAGAAGATTGAGAGTGAGAGA
 GCCCTCATCAGCCAGTGTGAAAACCAAGTGGTAAATGTCAGCTACAGGCCAGCTTATGACCAGGGTGGCCCAAGT
 GAAATCCTTCCCTTCTCTACCTTGGAAGTGCCTACCATGCATCCAAGTCCGAGTTCCTCGCCAACTTGCACATC
 ACAGCCCTGCTGAATGTCTCCCGACGACCTCCGAGGCTGCATGACCACCTACACTACAAATGGATCCCTGTG
 GAAGACAGCCACACGGCTGACATTAGCTCCCACTTTCAGAAGCAATAGACTTCATTGACTGTGTGAGGGAAAAG
 GGAGGCAAGGTCTGTGCCACTGTGAGGCTGGGATCTCCCGTTCACCCACCATCTGCATGGCTTACCTTATGAAG
 ACCAAGCAGTTCGGCTGAAGGAGGCCCTTCGATTACATCAAGCAGAGGAGGAGCATGGTCTCGCCCAACTTTGGC
 TTCTATGGGCCAGCTCCTGCGACTACGAATCTGAGATCTGCCCTCCACGCCCAACCCCGAGCTCCCTCCTGCCAA
 GGGGAGGCGACGAGGCTCTTCACTGATAGGCCATTTGCAGACACTGAGCCCTGACATGCAGGGTGCCTACTGCACA
 TTCCCTGCCTCGGTGCTGGCACCGGTGCCTACCCACTCAACAGTCTCAGAGCTCAGCAGAAGCCCTGTGGCAACG
 GCCACATCCTGCTTAAAACTGGGATGGAGGAATCGGCCAGCCCCAAGAGCAACTGTGATTTTTGTTTTTAAGACT
 CATGGACATTTTCATACCTGTGCAATACTGAAGACCTCATTCTGTATGCTGCCCCAGTGAGATAGTGAGTGGTCA
 CCAGGCTTGCAAATGAACCTCAGACGGACCTCAGGGTAGGTTCTCGGGACTGAAGGAAGGCCAAGCCATTACGGG
 AGCACAGCATGTGCTGACTACTGTACTTCCAGACCCCTGCCCTCTTGGGACTGCCAGTCTTGCACCTCAGAGT
 TCGCCTTTTCATTTCAAGCATAAGCCAATAAATACCTGCAGCAACGTGGGAGAAAGAAGTTGCTGGACCAGGAGA
 AAAGGCAGTTATGAAGCCAATTCATTTTGAAGGAAGCACAAATTTCCACCTTATTTTTGAACCTTGGCAGTTTCA
 ATGCTGTCTCTGTTGCTTCGGGGCATAAGCTGATCACCCTAGTTAGGGAAGTCAAGGTTTGTAGG
 GACATGATCAGCATCCTGATTTGAACCTGAAATGTTGTGTAGACACCCCTCTTGGGTCCAATGAGGTATGTGGTT
 GAAGTAGCAAGATGTTGGCTTTTCTGATTATTTTTTGGCATGGGTTCTCTACCTGACCTTGGACTTTGGCATGATT
 CTTAGTCATACCTGAACTTGCTCTATTCCACCTTTCTCAGAGCAACTCTTCCCTTTGGGAAAAGAGTTCTTCAGA
 TCTATAGCAAAAAAAGTCACTACCTTCGAGGTGGTAGCAGTAGATTCCAGGAGGAGAAGGGTACTTGTAGGTATC
 CTGGGTGAGTGGCGGTGCAAACTGGTTTCTCAGCTGCCTGTCTTCTGTGTGCTTATGTCTCTTGTGACAATTG
 TTTTCTCCCTGCCCTGGAGGTTGTCTTCAACTGTGGACTTCTGGGATTTGCAGATTTTGCACGTGGTACTAC
 TTTTTTTCTTTTTGTCTGTTAGTTATTTCTCAGGGGAAAAGGCAATAATTTCTAAGACCCGTGTGAATGTGA
 AGAAAAGCAGTATGTTACTGGTTGTTGTTGTTGTTCTTGTTTTTTATATGTAAAATAAAAATAGTGAAAGGAG

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FIGURE 813

MKVTSLDGRQLRKMLRKEAAARCVVLD CRPYLAFAASNVRGSLNVNLNSVVLRRARGGAVSARYVLPDEAARARL
LQEGGGGVAAVVLDQGSRHWQKLREESAARVLTSL LACLPAGPRVYFLKGGYETFYSEYPECCVDVKPISQEK
IESERALISQCGKPVVNVSYR PAYDQGGPVEILPFLYLGSAYHASKCEFLANLHITALLNVSRRTSEACMTHLHY
KWIPVEDSHTADISSHFQEAIDFIDCVREKGGKVLVHCEAGISRSPTICMAYLMKTKQFRLKEAFDYIKQRRSMV
SPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGHLQTLSPDMQ GAYCTFPASVLAPVPTHSTVSELSR
SPVATATSC

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FIGURE 814

A^gCCGCCGCTCGCCGCTTCCCTCTGTCGGAGCGGCCGCTCGTCCGCCCGGCTTGAGGCCCGCGGGAGCGCGGC
GCAATTCGTCGGCCCGCGGGGGGCGGCCCTCCCGGCATCTTCGCGCGACCAAGGACTACCAGGAAGGGGAGCGG
CTGGGATCGCGCGTCCGCGGCCCGCGAGTACAAAGCGGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGC
ACTGGCCGGCCCGGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAACAAGTATCCTATCTTCTTT
TTGGCACCCATGAACTGCATTTCTAGGTCCCAAAGACCTTTTCCATATAAGGAGTACAAAGACAAGTTTGAA
AGTCAAACAAACGGAAGGATTTAACGAAGGATTGTGGGAAATAGAAAATAACCCAGGAGTAAAGTTTACTGGCT
ACCAGGCAATTCAGCAACAGAGCTCTTCAGAACTGAGGGAGAAGGTGGAAATACTGCAGATGCAAGCAGTGAGG
AAGAAGGTGATAGAGTAGAAGAAGATGGAAAAGGCAAAAGAAAGAATGAAAAGCAGGCTCAAAACGGAAAAAGT
CATATACTTCAAAGAAATCCTCTAAACAGTCCCGGAAATCTCCAGGAGATGAAGATGACAAAGACTGCAAAGAAG
AGGAAAACAAAGCAGCTCTGAGGGTGGAGATGCGGGCAACGACACAAGAAACACAACCTTCAGACTTGCAGAAAA
CCAGTGAAGGGACCTAACTACCATAATGAATGCTGCATATTAAGAGAAACCACAAGAAGGTTATATGTTTGTTG
TCTAATATTCTTGGATTTGATATGAACCAACACATAGTCTTGTGTGATTGACAGAACCCCACTTGTATGTAC
ATTATTCATATTCCTCTCTGTTGTGTTTCGGGGGGAAAAGACATTTTAGCCTTTTTTAAAAGTTACTGATTTAAT
TTCATGTTATTTGGTTGCATGAAGTTGCCCTTAACCACTAAGGATTATCAAGATTTTTCGCGCAGACTTATACATG
TCTAGGATCCTTTTATCAAGGCAGTTATGATCATCGTTTTCTGCCTTGACCCCACTCATCAAACACTCAGTT
AAATATAAATTAACATTTTTTAGATGACCACTCAACATAATGCTTAAGAATGGAATTCCTCTCTGTGACAGAAC
CCAGGAATTAATTCCTAAATACATAACGTTGGTATATTGAAGACGAAATTAATTTGTCCTTCAGTTTTGAGGCC
ATGTGTAAAGTTTAACCATATTGTAAATATCTATTCCGTATTAGAAATAGCTAGTTGACAGCTTATACTTCTCA
AAATTCATATTGTTATGTACACAACTAAGTTCTATATGTGAAGTTAGTGAGTCTTTTTGTGTTACTCCAAAAT
AAAGGCAATGATTTATTTTTTCCAGTGCCAATACAATTTTGAGCTAAGCACTCAAGGTGGATACTTTACATTT
TAAAGCTGGAATCAGCAACAGCCCTATGGGAAACCAGACAAAGCATTGACTTTTAAATGTAGACTTTTAAATATA
ACTGTTTTCTTTTGGAACTACAATTAGAATAGTTAATATTTCATCCTTAAACCATTATTATGTGTACATTATTGTT
GCTATTGTGATAATAGAGAATTTATTTATTTTATGCCAGCTTAATTGTGAGAACACATTTAGTCAGTTTGGG
TTTTATCAATCCTGTTAATGCTGTGCTTGGAAACATCTTCGCGTATTCACGGTTGTAGTTGAAAAGTTTACTG
TAAAAAATCAAAAACAAAAAATGTATTGTTTTACAGAATAAATTTATTGGGATGTGTACTGGGAGTAAGATT
TGAGGTTGTAAAGCAAACTAAGTTAGTGTAATTTGGCTTCATATATGTAACGTGAGGTATTAATGTAATTCATATA
TTAAAGCAAAAATTGTTTCGCAGC

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FIGURE 815,

MARPRPREYKAGDLVFAKMKGYPHWPARIDELPEGAVKPPANKYPIFFFGTHETAFLGPKDLFPYKEYKDKFGKS
NKRKGFNEGLWEIENNPVGKFTGYQAIQQSSSETEGEGGNTADASSEEGDRVEEDGKGKRNKAGSKRKKSY
TSKKSSKQSRKSPGDEDDKDCKEENKSSSEGGDAGNDRNTTSDLQKTSEGT

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FIGURE 816

GGCACGAGGCACGTGGTTATGCTGCCGGAGTTTGGGCCGCCACTGTAGGAAAAGTAACTTCAGCTGCAGCCCCAA
AGCGAGTGAGCCGAGCCGGAGCCATGGAGGGCCAGAGCGTGAGGAGCTGCTCGCAAAGGCAGAGCAGGACGAGG
CAGAGAAGTTGCAACGCATCACGGTGACACAAGGAGCTGGAGCTGCAGTTTGACCTGGGCAACCTGCTGGCGTCGG
ACCGGAACCCCCGACCGGGCTGCGGTGCGCCGACCCACGCCGAGGCCGAGCTACAGGCCCTGGCGCGGGACA
ACACGCAACTGCTCATCAACCAGCTGTGGCAGCTGCCACGGAGCGCGTGGAAGAGGCGATAGTGGCGCGGCTGC
CGGAGCCCAACACACGCCGTGCCGCGAGAGAAGCCTCTGCCCCGACCGCGGCCACTTACACGCTGGCAGCAGTTTCG
CGCGCCTCAAGGGCATCCGTCCCAAGAAGAAGACCAACCTGGTGTGGGACGAGGTGAGTGGCCAGTGGCGGGCGG
GCTGGGGCTACCAGCGCGCCCGGGACGACACCAAGAATGGCTGATTGAGGTGCCCGGCAATGCCGACCCCTTGG
AGGACCAGTTCGCCAAGCGGATTTCAGGCCAAGAAGGAAAGGGTGGCCAAGAACGAGCTGAACCGGCTGCGTAACC
TGGCCCGCGCGCACAAAGATGCAGCTGCCCAGCGCGCGCGGCTTGCACCCTACCGGACACCAGAGTAAGGAGGAGC
TGGGCCGCGCCATGCAAGTGGCCAAGGTCTCCACCGCCTCTGTGGGGCGCTTTCAGGAGCGCCTCCCCAAGGAGA
AGGTGCCCCGGGGCTCCGGCAAGAAAAGGAAGTTTCAACCCCTTTTCGGGGACTTTGCAGCCGAGAAAAAGAACC
AGTTGGAGCTGCTTCGTGTCATGAACAGCAAGAAGCCTCAGCTGGATGTGACTAGGGCCACCAATAAGCAGATGA
GGGAGGAGGACCAGGAGGAGGCCGCAAGAGGAGGAAAATGAGCCAGAAGGGCAAGAGAAAGGGAGGCGCGCAGG
GGCCTGGGGGCAAGAGGAAAGGGGGCCCCCAGCCAGGGAGGGAAGAGGAAAGGGGGCTTGGCAGGCAAGATGA
ATTCTGGGGCGCCTGGCTTGGGTGGCAAGAGAAAAGGAGGACAGCGCCAGGAGGAAAGAGGAGGAAGTAATAGT
TTCTAACTGTCGGACCCGTCTGTAAACCAAGGACTATGAATACTAAATGTTAAGTTCTAGGCAATTATACGGGGA
CTCAGAAGGACCTGGCCGCTGCCTTCATTGAGTTTAAAGGGACAGGATTGCCCTTCCGTCAAGAAAGTATGTAAG
TGTTGGACTGCACAAATTAATGTTTTTCCACAACCGAGACTTTGGAGATTAAGAACTTATTTGAGGATTTAAGA
ATTAGGGAAATAATTTGGTGAAACCGGGAATGAGTTCTATTCTTAAACAGCCTTTTTTTTTCTTTTTAATGTTG
GATATACGGCGAGGTAGAGTTGGCCATATTTAGAGACTTAGATTGACGTATATGTTTCTGCATTATTTTTACAA
CAAGTTTGTGTATCAGAGCGGGAGTGCGGGGGAGGGAAAGAAAACAAACAGTTTCAGAATTGAATAGGCAAGTGA
CTGTTTTAAAGATTAAGTAATAAAGATGTCTATCTAGTGTGACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 817

MEGQSVEELLAKAEQDEAEKLQRITVHKELELQFDLGNLLASDRNPPTGLRCAGPTPEAELQALARDNTQLLINQ
LWQLPTERVEEAIVARLPEPTTRLPREKPLPRPRPLTRWQQFARLKGIRPKKKTNLVWDEVSGQWRRRWGYQRAR
DDTKEWLIEVPGNADPLEDQFAKRIQAKKERVAKNELNRLRLNLAHAKMQLPSAAGLHPTGHQSKEELGRAMQVA
KVSTASVGRFQERLPKEKVPRGSGKKRKFPQPLFGDFAAEKKNQLELLRVMNSKKPQLDVTRATNKQMRREEDQEEA
AKRRKMSQKGKRKGGRQGPQGGKRKGPPSQGGKRKGGLGGKMNSGPPGLGGKRKGGRPPGGKRRK

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FIGURE 818

GGGAGCGGCCGTGGAGCCCAATCGTTGCTCCCTTCCCGGGTCCGCGCGCGCGCCGCTCCGCCATTGCTGCG
AGCAGGAGCAGGAGACGCGGAGCTCGGAGCGCTGAGCTGACCTGCCGGAGCCGGGCGTGGGCTGCAGCCTCGGAG
CTCCCGGAACGATGGTGAAGTTGGGGAACAATTTGCGAGAGAAGGGCACCAAGCAGCCGCTGCTGGAGGATGGCT
TCGACACCATTCCCTGATGACGCCCCCTCGATGTCAATCAGCTGCAGTTCCCGCCCCGGATAAGGTGGTCGTGA
AACTAAGACCGAGTATGAACCTGACCGCAAGAAAGGGAAAGCACGTCTCCCAAATTGCTGAGTTCACCGTCA
GCATCACGGAGGGTGTACCGAGAGGTTTAAGGTCTCCGTGTTGGTCCTTTCGCCCTGGCCTTCCTCACCTGCG
TCGTCTTCCTGGTTGTCTACAAGGTGTACAAGTATGACCGCGCCTGCCCGATGGGTTCGTCTCAAGAACACCC
AGTGTCATCCCAGAAGGCTTGGAGAGCTACTACGCGGAGCAAGACTCCAGTGCCCGGGAGAAATTTACACAGTCA
TAAACCACTACAACCTGGCCAAGCAGAGCATCACGCGCTCCGTATCGCCCTGGATGTCAAGTCTGTCAAGAGA
AGCTGTCCGAGCAGGAGACTGAAGCGGCTGAGAAGTCAGCTTAGCGGGATGGGCAAGTTCCTTACAATGTGTCAC
TTGCAAATAACAAAGGGACTTTGAGGGACATTTTATTAAATATAATTACTGATACTTTAGAGGTTACTCATTAC
GGTGCAATTGCTTCTGTTTGTCTAATGCTGCTTTGCAAATAAACTTGCTGCCGACCACCCACGGGCATAAAATCA
AGTGCAATTCAGCATTGCCTAAAGAGCTCTGACACCACTTTTCATGTTAAGATCTTCATTTAGCTCCTTTACTGG
GATTTATTGGATGCTGTAAAAAATAAATTTACACTGGATATGCGAAGGGTTGGATCTCAGATAAATGCATTTT
GTGGAATTGATTTTCTGAACCGACCCTGCTGTCTGCAAACCTTCTCCATAGCCATATCTAGAGTGATCTCTCGC
TGTGCTAAGAGCAAGCCTACTTCGCATTTCTTCTCGGCCATCAGCGGGTAACAGTGCTGACTGCTGCCAAGGTG
CACTGTAGTAAGGTGTCTGGAGACACAGACCGTGACCTTGGCGCAGCGGTGTGCATCAGAGGCGTGTGCTGAGAA
GGGTGGTGTAAAGCTGTGGAAAATGACTCAAGAGCAATAAATCAGTGCCAAAGCTTCCCTGCGCATCTGAATAGA
CACAAGTGAAGCCCGTGTGCGCACAGTGACAGGCGCGAGCCTGTATTTCCAGGTAGACGTGGACTTTATTGACTG
TGAATTCATTTACCTGTAACTTCTGACATTTCACTCTGTGCAATAAAGAACATGAGGATAAAAAAAAAAAAAA
AAA

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FIGURE 819

MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPFDPKVVVKTTEYEPDRKKGKARPPQIAEFTVSITE
GVTERFKVSVLVLFALAF LTCVVFLVVYKVYKYDRACPDGFVLKNTQCIPEGLESYYAEQDSSAREKFYTVINHY
NLAKQSITRSVPWMSVLSEEKLEQETEAEEKSA

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FIGURE 820

GAGGGAAGTGTGCGACTGCCCGGCGGGAACAGACATGCTGCGGCCAAGAAGCAGAAGCTGAGCAGTGACGAGAA
CAGCAATCCAGAACTCTCTGGAGACGAGAATGATGACGCTGTGAGTATAGAAAGTGGTACAAACACTGAACGCC
TGATACACCTACAAACACGCCAAATGCACCTGGAAGGAAAAGTTGGGGAAAGGGAAAATGGAAGTCAAAGAAATG
CAAATATTCTTTCAAATGTGTAAATAGTCTCAAGGAAGATCATAACCAACCATTGTTTGGAGTTCAGTTTAACTG
GCACAGTAAAGAAGGAGATCCATTAGTGTGTTGCAACTGTAGGAAGCAACAGAGTTACCTTGTATGAATGTCATT
ACAAGGAGAAATCCGGTTGTTGCAATCTTACGTGGATGCTGATGCTGATGAAAACCTTTTACACTTGTGCATGGAC
CTATGATAGCAATACGAGCCATCCTCTGCTGGCTGTAGCTGGATCTAGAGGCATAATTAGGATAATAAATCCTAT
AACAATGCAGTGTATAAAGCACTATGTTGGCCATGGAAATGCTATCAATGAGCTGAAATTCATCCAAGAGATCC
AAATCTTCTCCTGTGTCAGTAAGTAAAGATCATGCTTTACGATTATGGAATATCCAGACGGACACTCTGGTGGCAAT
ATTTGGAGGCGTAGAAGGGCACAGAGATGAAGTTCTAAGTGTGATTATGATCTTTTGGGTGAAAAAATAATGTC
CTGTGGTATGGATCATTCTCTTAACTTTGGAGGATCAATTCAAAGAGAATGATGAATGCAATTAAGGAATCTTA
TGATTATAATCCAAATAAACTAACAGGCCATTTATTTCTCAGAAAATCCATTTTCTGATTTTTCTACCAGAGA
CATACATAGGAATTATGTTGATTGTGTGCGATGGTTAGGCGATTTGATACTTTCTAAGTCTTGTGAAAATGCCAT
TGTGTGCTGGAAACCTGGCAAGATGGAAGATGATATAGATAAAATTAACCCAGTGAATCTAATGTGACTATTCT
TGGGCGATTTGATTACAGCCAGTGTGACATTTGGTACATGAGGTTTTCTATGGATTCTGGCAAAAGATGCTTGC
ATTGGGCAATCAAGTTGGCAAACCTTATGTTTGGGATTTAGAAGTAGAAGATCCTCATAAAGCCAAATGTACAAC
ACTGACTCATCAAAATGTGGTGTCTATTTCGACAAACCAGTTTTAGCAGGGATAGCAGCATTCTTATAGCTGT
TTGTGATGATGCCAGTATTTGGCGCTGGGATCGACTTCGATATAAATACTTTTGCCTAATCAAAATTAATGTGT
TTGTTGTCTGTGTAAAAATAAATTAATGTATCTTGCTAGTAAGGGCACGTAGAGCATTAGAGTTGTCTTTAGC
ATTCAATCAGGCTGAGCTGAATGTAGTGATGTTTACATTGTTTACATTCTTTGTACTGTCTTCTGCTCAGACTC
TACTGCTTTTAATAAAAAATTTATTTTGTG

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FIGURE 821

MPAAKKQKLSSDENSNPESLGDENDDAVSIESGINTERPDTPINTPNAPGRKSWGKWKWSKKCKYSFKCVNSLK
EDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVDADADENFYTCAWTYDSNTSHPLLA
VAGSRGIIRIINPITMQCIKHYVGHGNAINELKFHPRDPNLLSVSKDHALRLWNIQTDTLVAIFGGVEGHRDEV
LSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESYDYNPNKTNRPFISQKIHFDPDFSTRDIHRNYVDCVRW
LGDILILSKSCENAIVCWKPGKMEDDIDKIKPSESNTILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGKLYVW
DLEVEDPHKAKCTTLTHHKCGAAIRQTSFSRDSSILIAVCDDASIWRWDRLR

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FIGURE 822

GCACGAGGCGAGCTGGAGTGATCTTTATTCACAATGTCTTTACAAAGGCTCCTGCAACACAGCAGCAATGGCAAT
TTGGCGGACTTCTGCGCTGGGCCAGCGTATAGCTCTTACTCCACACTCACCGGCAGCCTTACGATGAACGATAAT
AGAAGGATTCAAATGCTAGCAGACACGGTGGCTACTCTGCCTCGGGGACGAAAGCAGCTTGCTTTGACCAGATCA
AGTTCTTTAAGTGACTTTTCTGGTCTCAAAGAAAGCTTGTTACTGTGGAGAAGCAGGATAATGAAACATTTGGA
TTTGAAATTCAGTCTTACAGGCCCCAGAATCAGAATGCCTGCTCCTCGGAAATGTTCACTTTGATATGCAAAATA
CAGGAGGACAGCCAGCTCACTGTGCTGGCCTGCAAGCTGGTGATGTCCTTGCAAAATATCAATGGTGTGAGCACA
GAAGGTTTTACCTACAAACAAGTCGTTGACCTGATCAGATCGTCCGGAACCTGCTAACGATAGAGACTCTTAAT
GGAACAATGATTCTGAAAAGAACGGAGCTTGAAGCAAAGCTGCAGGTTTTAAAGCAAACCTTTGAAACAAAAATGG
GTGGAGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCTTCATGGTGATGCAGCTAATTGCCCCAGTTTGGA
AACATGGACTTGGATGAATTGCTTTGTTTGGACCCCTGCCTGGGCCAGGCCAGCCCTTGTTGGACCGGAATCGA
TTATCCAGTGAGAGCAGCTGTAAGAGCTGGCTGAGCTCCATGACGATGGACAGTGAAGATGGCTACCAGACGTGT
GTGTCTGAGGACTCCAGCAGGGGTGCCTTCAGTCGGCAGACGAGTACAGATGATGAGTGCTTTATCCCCAAGGAG
GGGGATGATTTTCTGAGGAGGTCACTTCAAGGAGGAACCGGAGCATCAGTAACACCAGCAGCGGATCCATGTCT
CCCTTGTTGGGAGGGCAACTTATCAAGCATGTTTGGGACCCTGCCCCGGAAGAGCAGAAAGGGAAGTGTCCGAAAG
CAACTCTTGAAATTTATCCCTGGCCTTCATCGTGCTGTGGAAGAGGAAGAAAGTCGCTTTTGACGGATTGTGGTG
TCCTTTCAAATTAGCTTATTTACAAATATCTCTAGACTCACCCAGATCCCAGCTTGGTGGGAAAGTGCAGAAGA
ATTGCAAACTGACATCCCATTTACAGCAATAGTGACCTTTATTTAAATTGTTGTGTATAGTTTATGCTTCTT
AAATCATTTTTCAACCTAAACAGCCAATTTCTAAGCAGACAGGAAAATAAATAAAGTTAATTAATATAACAA
AGATGCAGGTTCTGCTCATTCCAGTAATGTCTTTGAAAGCAAACCTAATATTTATTTCTAGATTATCCCTGTG
AATAATTGAGAACTTTTGGAGTCAAGTATGAATAAAGGTGTGGCAGAATATAATAATCTGGACTATTTCTATA
GGATAATTGCTGGGTATATAAAATCTTAGGTTTGCTTATGCCAGTAGCTCCTGCGGAGGCTTAATAATAGGCAAT
TTTGAATTTGTTCAAACCTGTAATGGCTTGTAACAAAGATGACCATCAGCTGTTTCTCACATCTATAGTGACAA
TAAAGCGGAAGTATAAGATTTAATAGGAGGGGTAAAGGTTTCATGAGAACCATGGAAAGATGTGGTCTGAGATGG
GTGCTGCAAGATCATAATAAAGTCATTTTATAGACAGTCTAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 823

MSLQRLQLQHSSNGNLADFCAGPAYSSYSTLTGSLTMNDNRRIQMLADTVATLPRGRKQLALTRSSSLSDFSWSQR
KLVTVEKQDNETFGFEIQSYRPQNQNACSSSEMFTLICKIQEDSPAHCAGLQAGDVLANINGVSTEGFTYKQVVDL
IRSSGNLLTIETLNGTMILKRTELEAKLQVLKQTLKQKWVEYRSLQLQEHRLHGDAAANCPSENMDLDELSLFG
PLPGPGPALVDRNRLSSESSCKSWLSSMTMDSSEDGYQTCVSEDSSRGAFSRQTSTDDECFIPKEGDDFLRRSSSR
RNRSISNTSSGSMSPLEWEGNLSSMFGTLPRKSRKGSVRKQLLKFIPLHRAVEEEESRF

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FIGURE 824

ACTTTCTGCCCTTCCCCGGCCAAGCCCAACTCCGGATCTCGCTCTCCACCGGATCTCACCCGCCACACCCGGA
CAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGAAGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGC
CTAGCCCAGAGACATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAA
CTCCTCCATTGTGGAAACCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCTACCTGGTGATCGTGGAACAGCC
TAAGCAGAGAGGCTTCCGATTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCCGTGCCTCCAGTGA
GAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGT
AACACACAGTGACCCACCTCGTGCTCATGCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC
CGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAACAACCTGGGTGTCTGCATGTGACTAAGAAGAAT
GATGGGGACTATGATACAAAACTTCAGAGGCAGCGGCTCCGCTCTAGGCCCCAGGGCCTTACGGAGGCCGAGCA
GCGGGAGCTGGAGCAAGAGGCCAAAGAAGTGAAGAAGGTGATGGATCTGAGTATAGTGC GGCTGCGCTTCTCTGC
CTTCTTAGAGCCAGTGATGGCTCCTTCTCCTGCCCCGTAAGCCAGTACCTCCCAGCCCATCCATGATAGCAA
ATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGTGGAGATGAAGT
TTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTTTCGGTTCTATGAGGATGATGAGAATGGATGGCA
GGCCTTTGGGGACTTCTCTCCACAGATGTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAA
GATGAAGATTGAGCGGCCTGTAAAGTGTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCCAA
ACAGTTACCTATTACCCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGGAAGGCCCTTGCCACCTT
CTCCCAGCCCTTCGGGGTGGCTCCACATGGGTGGAGGCTCTGGGGTGCAGCCGGGGGCTACGGAGGAGCTGG
AGGAGGTGGCAGCCTCGGTTTCTTCCCCTCCTCCCTGGCCTACAGCCCTACCAGTCCGGCGCGGGCCCCATGCG
GTGCTACCCGGGAGGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGCCAGCAGGGACTCCGGGGAGGAAGCCGC
GGAGCCGAGCGCCCCCTCCAGGACCCCCAGTGCGAGCCGAGGCCCGGAGATGCTGCAGCGAGCTCGAGAGTA
CAACGCGCGCCTGTTCGGCCTGGCGCACGCAGCCCCGAGCCCTACTCGACTACTGCGTACC GCGGACGCCCGCGC
GCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACACCACTGCACCTAGCCATCAT
CCACGGGCAGACCAAGTGTATTGAGCAGATAGTCTATGTATCCACCACGCCAGGACCTCGGCGTGTCAACCT
CACCAACCACCTGCACCAGACGCCCTGCACCTGGCGGTGATCACGGGGCAGACGAGTGTGGTGAGCTTTCTGCT
GCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGC
TGGTGCTCCTGAGCTGCTGCGTGCACTGCTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGA
CTTTGAGGGACTGTATCCAGTACACCTGGCGGTCCGAGCCCGAAGCCCTGAGTGCCTGGATCTGCTGGTGGACAG
TGGGGCTGAAGTGGAGGCCACAGAGCGGCAGGGGGACGAACAGCCTTGATCTAGCCACAGAGATGGAGGAGCT
GGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAACGTGAACGCTCGCACCTTTGCGGGAAACACACCCCT
GCACCTGGCAGCTGGACTGGGGTACCCGACCCTCACCCGCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGA
AAACGAGGAGCCCCGTGCCCCACTGCCTTCACCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGAGAA
GGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTGCGAGCACCTGGTGAAGACCTTGCTGCT
AAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCCGCCAGCCAGCAGGGCCGGGACTGTCACTTGGTGA
TACAGCTCTGCAGAACCTGGAGCAGCTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCG
TCTGGGGCTGCGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGCTACGA
GCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTAGAGGAGGGAGTGAGGCTGCT
GAGGGGTCCAGAAACCCGAGACAAGCTGCCAGCACAGAGGTGAAGGAAGACAGTGC GTACGGGAGCCAGTCAGT
GGAGCAGGAGGCAGAGAAGCTGGGCCCCACCCCTGAGCCACCAGGAGGGCTCTCGCACGGGCACCCCCAGCCTCA
GGTACTGACCTGCTGCCTGCCCCAGCCCCCTTCCCGGACCCCCGTACAGCGTCCCCACCTATTTCAAATCTT
ATTTAACACCCACACCCACCCCTCAGTTGGGACAAATAAGGATTCTCATGGGAAGGGGAGGACCCCGAATTC

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FIGURE 825

MESCYNPGLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCEGFSHGGLPGASSEKGRK
TYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLHVTKKNMMGMT
IQKLQRQLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFSAFIRASDGSFSLPKPVTSPQIHDSKSPGA
SNLKISRMDKTAGSVRGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIVFRTPPYHKMKIE
RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGSGGAAGGYGGAGGGGS
LGFFPSSLAYSPLYQSGAGPMRCYPGGGGGAQMAATVPSRDSGEEAAEPSAPSRTPQCEPQAPPEMLQRAREYNARL
FGLAHAAPSPTRLLRHRGRRALLAGQRHLLTAQDENGDTPLHLAIIHGQTSVIEQIVYVIHHAQDLGVNLTNHL
HQTPLHLAVITGQTSVVSFLLRVGADPALLDRHGDSAMHLALRAGAGAPPELLRALLQSGAPAVPQLLHMPDFEGL
YPVHLAVRARSPECLDLLVDSGAEVEATERQGGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAA
GLGYPTLTRLLLKAGADIIHAENEEPLCPLPSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTLVKTLNNAQ
NTMEPPLTPPSPAGPGLSLGDTALQNLQQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPPSGSLLRSYELAGG
DLAGLLEALSMDGLEEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDL
LPAPSPLPGPPVQRPHLFQILFNTPHPLSWDK

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FIGURE 826

GGGGGTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCCGCTGCAATCCGTGGAGGAACGCGCCGCCG
AGCCACCATCATGCCTGGGCACCTTACAGGAAGGCTTCGGCTGCGTGGTCACCAACCGATTTCGACCAGTTATTTGA
CGACGAATCGGACCCCTTCGAGGTGCTGAAGGCAGCAGAGAACAAGAAAAAGAAGCCGGCGGGGGCGGCGTTGG
GGGCCCTGGGGCCAAGAGCGCAGCTCAGGCCGCGGCCAGACCAACTCCAACGCGGCAGGCAACAGCTGCGCAA
GGAGTCCCAGAAAGACCAGCAAGAACCCGCTGCCCCCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCC
GCCCCGTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAAGGGAA
AATAATTGATAGAAGACCAGAAAGGCGACCACTCGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGA
AGGAGGCGAATTTTTCAGTTGATAGACCATTATTGACCGACCTATTTCGAGGTGCTGGTGGTCTTGGAAGAGGTGCG
AGGGGGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAG
TGGAAGTGATAGATCTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAACCTGGGGAACGTGCA
AGACGAATTAACCTGACTTGGATCAATCAATGTGACTGAGGAAACACCTGAAGGTGAAGAACATCATCCAGTGGC
AGACACTGAAAATAAGGAGAATGAAGTTGAAGAGGTAAAGAGGAGGGTCCAAAAGAGATGACTTTGGATGAGTG
GAAGGTATTCAAATAAGGACCGGGCAAAAGTAGAATTTAATATCCGAAAACCAAATGAAGGTGCTGATGGGCA
GTGGAAGAAGGGATTTGTTCTTCATAAATCAAAGAGTGAAGAGGCTCATGCTGAAGATTCGGTTATGGACCATCA
TTTCCGGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCCGCCCAGGACGTGG
CGGCAGGGGAGGACGAGGTGGACGTGGCGTGGTGGCGGCCCAAACCGTGGCAGCAGGACCGACAAGTCAAGTGC
TTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCAGCTCTGGCTTAACTGGATGCCATAAGACAACCCCTGGTT
CCTTTGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAACGACTAAGAAATTAAGGAGGAGG
ACTGTCATTACATACCATTACACCTAAAGACTGAATTTTATCTGTTTTAAATGAACCTTCTCCGCTACACAGA
AGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTAATGGTAGCAGGGATGTTTTATAATTTTCAGAGAT
TATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAACTTGAAATATAGGTGTGAAC
AGTGTGTACCAGTTTAAAGCTTTCACCTCATTGTGTTTTTAAATTAAGGACTTAGAAGTTCCCCAATTACAAA
CTGGTTTTAAATATTGGACATACTGGTTTTAATACCTGCTTGCATATTACACATGGTCAACTGGGACATGTTA
AACTTTGATTTGTCAAATTTTATGCTGTGTGGAATACTAATAATATGATTTTAACTTAGTTTAAATATTTTCAT
TTTGGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTATATACAGAAATA
TCAGTACTTGAACAAATTCAAAGCACATTTGGTTTATTAACCCCTGCTCCTTGCATGGCTCATTAGGTTCAAAT
ATAACTAATTTACATTTTCAGCTATATTTACTTTTAAATGCTTGAGTTTCCCATTTTAAATCTAACTAGACA
TCTTAATTGGTGAAAGTTGTTTAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTATAGGT
ATGGGTTTTTCTCCCCCTTACCAGGGTGGGTGGAATAAGTTGATTGGCCAATGTGTAATATTTAACTGTTC
TGTAATAAATAAAAAAAAAAAAAAAAAA

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FIGURE 827

MPGHLQEGFGCVVTNRFDQLFDDESDPFEVLKAAENKKKEAGGGGVGGPGAKSAAQAAAQTSNAAGKQLRKESQ
KDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQGEKGIIDRRPERRPPRERRFEKPLEEKGEKGE
FSVDRPIIDRPIRGRGGLGRGRGGRGRGMGRGDGFD SRGKREFDRHSGSDRSLKHEDKRGGSGSHNWGTVKDEL
TDLDQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKDRAKVEFNIRKPNEGADGQWKK
GFVLHKSKEEHAEDSVMDHHRKPANDITSQLEINFGDLGRPRGRGRGGRGRGRGRPNRGSRTDKSSASAP
DVDDPEAFPALA

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FIGURE 828

CTGTGCTGTAAAAACAAGAGTAACATTTTTATATTAAAGTTAAATAAAGTTACAACCTTGAAGAGAGTTTCTGCA
AGACATGACACAAAGCTGCTAGCAGAAAAATCAAACGCTGATTAAAAAGAAGCACGGTATGATGACCAAACATAAA
AAGTGTTTTATAATTGTTGGTGTTTTAATAACAACATAATATTATTACTCTGATAGTTAACTAACTCGAGATTCT
CAGAGTTTATGCCCCCTATGATTGGATTGGTTTCCAAAACAAATGCTATTATTTCTCTAAAGAAGAAGGAGATTGG
AATTCAAGTAAATACAACCTGTTCCACTCAACATGCCGACCTAACTATAATTGACAACATAGAAGAAATGAATTTT
CTTAGGCGGTATAAATGCAGTTCTGATCACTGGATTGGACTGAAGATGGCAAAAAATCGAACAGGACAATGGGTA
CATGGAGCTACATTTACCAAATCGTTTGGCATGAGAGGGAGTGAAGGATGTGCCTACCTCAGCGATGATGGTGCA
GCAACAGCTAGATGTTACACCGAAAGAAAATGGATTGTCAGGAAAAGAATACACTAAGTTAATGTCTAAGATAAT
GGGGAAAATAGAAAATAACATTATTAAGTGTAACCAGCAAAGTACTTTTTTAATTAAACAAAGTTTCGAGTTT
GTACCTGTCTGGTTAATTCTGCTTACGTGTCAGGCTACACATAAAAGCCACTTCAAAGATTGGCAAAAAAAAAA
AAAAAAAAA

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FIGURE 829

MMTKHKKCFIIVGVLITTTNIITLIVKLTRDSQSLCPYDWIGFQNKCYFVSKEEGDWNSSKYNCSTQHADLTIIDN
IEEMNFLRRYKCSSDHWIGLKMAKNRTGQWVHGATFTKSFGMRGSEGAYLSDDGAATARCYTERKWICRKRIH

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FIGURE 830

CTGAAGCTTGCATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTTTTTCTTTCTT
CCAGAAGGAGATTTAACCATAGTAGAAAGAATGGAGAAGTATTAAGTGCCTTCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAAGTGGAGGTTTCCATTGGAATTCTATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCCTGATATGCAGCATGAATGAAAATGGCAAGTT
TCCTGGCCTTCTTCTGCTCAACTTTCTGTGTCTGCCCTCTTTTGTCTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCCTCTGGGCCCATCTGGCCATGCTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAAGTTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGACAGTGAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGTTGCAGCACTGGGTTCTGATCTTACGTTGATGTGAAGG
GTACAAAGGATGGAGGGATCCATCTGGAGTGCAGGTCCTGCTGGTACCCCCAACCCCAATACAGTGGAGCA
ACAACAAGGGAGAGAACATCCCGACTGTGAAGCACCTGTGGTTGCAGACGGAGTGGGCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCCTCCTCGGCCTGGAAA
AGACAGCCAGCATTTCCATCGCAGACCCCTTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCCCTGTCTTGTCTGCTGCTTCTTGGGGAGCCGGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAAATGAAGCAAGAACAAGCACAAGAG
TGAAGCTCCTGGAGGAAGTCAAGTGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTAGCCTATAATG
AATGGAAGAAAGGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAACCCCATCTCTTGT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAAGTGAAGCCAGAACCAACCTGAAACTTCTAAGC
CCCCAAGAAAGTGGGGGTCTTCTGGACTATGAGACTGGAGATATCTATTCTACAATGCTGTGGATGGATCGC
ATATTCTACTTCTTCTGGACGTCTCTTCTCTGAGGCTCTATATCCTGTTTTTCAAGATTTTGGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTGAAGAAGAAGAGAGTTTCTCCAATTCTGACCGAGTGTGATCATTCCCT
AGAGACACCAAGTAAACCCGGGCTTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAACTTTTCTCTGCTTCTC
CCTGCCAGCTCAGAGCTGAGGGCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCAGCAGCTG
AAGCACTTTACTGATACTCATTCAATTATTCATATGACAGTTGTTTGTGAGTTTGGTACCATCTTATTTCCCTTAA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAAACAACACAGCTGG
GATCTAAACAGCAATAACTAACATTAATGGAGAACTTAAATGCTCTGAGTGTCTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCCTGTGGGTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTTCAAGTTTCAAGTCCCGGCCCTATGGC
CGTCTTTTTCCACCCTGTTTCTTCCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCTTCCAGCTGATTGTGAGAGC
CTTAGACCCAGCAGCCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAAATACCCTAGAGATTT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGCGATCTCAGCTCCCTGCAACCTCCACCTCCTGGGTTCAAACAA
TTCTCTGCTCAGCCTCCCGAGTACTGGGAATATAGGTGCACGCCACCAACCCCAACAAATTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCCACCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGTGACGGGCTTACAGGGATATTTTAAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATTCCTTTCAACTGCTGCC
TGCTAGGGAAAAACTACTCCTCATTATCATATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGTCAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAATAAATAAATAAATAAATAAATAAATAA
AA

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FIGURE 831

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGSPGPILAMVGEDADLPCHLFPTMSAETMELKWSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFQDGD FYEKALVELKVAALGSDL
HVDVKGYKDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSS
LLGLEKTASISIA D PFFRSAQRWIAALARTLPVLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMQ
EQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLDPNP
ERFNWHYCVLGCEFSISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRTN
LKLKPKPPKKVGVFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTALSICPA

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FIGURE 832

GACAGAGCCCGGGCCACGGAGCTCCTTGCCAGCTCTCCTCCTCGCACAGCCGCTCGAACCGCTGCTGAGCCCCA
TGCCCCGCGCCACGCTCTCCGCCGCCCCAGCAATCCCCGGCTCCTGCGGGTGGCGCTGCTGCTCCTGCTCCTGG
TGGCCGCCAGCCGGCGCGCAGCAGGAGCGCCCCTGGCCACTGAACTGCGCTGCCAGTGCTTGACAGACCCTGCAGG
GAATTCACCTCAAGAACATCCAAAGTGTGAAGGTGAAGTCCCCGGACCCCACTGCGCCCCAAACCGAAGTCATAG
CCCACTCAAGAATGGGCAGAAAGCTTGTCTCAACCCCGCATCGCCCATGGTTAAGAAAATCATCGAAAAGATGC
TGAAAAATGGCAAATCCAACTGACCAGAAGGAAGGAGGAAGCTTATTGGTGGCTGTTCCCTGAAGGAGGCCCTGCC
TTACAGGAACAGAAGAGGAAAGAGAGACACAGCTGCAGAGGCCACCTGGCTTGCGCCTAATGTGTTTGAGCATACT
TTAGGAGAAGTCTTCTATTTATTTATTTATTTATTTATTTATTTGTTTGTGTTTAGAAGATTCTATGTTAATATTTTATG
TGTAATAAAGGTTATGATTGAATCTACTTGACACTCTCCCATATATTTATTGTTTATTTTAGGTCAAACCCA
AGTTAGTTCAATCCTGATTCATATTTAATTTGAAGATAGAAGGTTTGCAGATATTCTCTAGTCATTTGTTAATAT
TTCTTCGTGATGACATATCACATGTCAGCCACTGTGATAGAGGCTGAGGAATCCAAGAAAATGGCCAGTAAGATC
AATGTGACGGCAGGGAATGTATGTGTGTCTATTTTGTAACTGTAAAGATGAATGTCAGTTGTTATTTATTGAAA
TGATTTACAGTGTGTGGTCAACATTTCTCATGTTGAAGCTTTAAGAACTAAAATGTTCTAAATATCCCTTGGCA
TTTTATGCTTTTCTTGTAAATACTGCCTTGTTAATGTTAATTATGCAGTGTTCCCTCTGTGTTAGAGCAGAG
AGGTTTCGATATTTATTGATGTTTTACAAAGAACAGGAAAATAAAATATTTAAAAATAT

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FIGURE 833

MARATLSAAPSNPRLLRVALLLLLLVAASRRRAAGAPLATELRCQCLQTLQGIHLKNIQSVKVKSPGPHCAQTEVI
ATLKNGQKACLNPASPMVKKIIIEKMLKNGKSN

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FIGURE 834

CAAATCCGTGCTCCTAGATTTGCAGGTTCTGATACTGTGGTTTCGAGCTACACTCGCCGCTGGGCAGACACTCGT
CCAAACCACTGGAGTGTGCTGGTGATCGCAGCCAGCCCTTCGCCTCTCCATGAACCCGTGAGCCTGGGGCAGGTG
CCAGGCCGATGGCGCGGCTGTGAGCGACAGGACCCCGGCCCTCTGCTGCTGGGCGGCCCGGCCGGACACCCCC
TGGCGGGGAGCGCTGCTTGGGTTGCGGAGCCTTCTGCAGGGGACCAGCAAGCCCAAAGAGCCGGCCAGCTGTCT
CCTGAAGGAAAAGGAGCGCAAGGCGGCCCTGCCTGCAGCCACAACCCCTGGGCCAGGCCTGGAGACTGCGGGCCC
GGCGGATGCCCCGGCTGGGGCAGTGGTGGGCGGAGGGTCCCCGCGGGGGCGCCCGGGGCGGTGCCCGCCCCGGG
TCTGTTGGCGCCACTGCTGTGGGAGCGCAGCTGCCGTTTCGGCGATGTGGAGTACGTAGACCTGGACGCCTTCT
GCTGGAGCACGGGCTCCCGCCAGCCCGCCGCCCCCGGTGGCCCGTCCGCGGAGCCGTCGCGCGCGGACGCC
CGCACCTTCCCCAGGGCCGGGTTCTGTCGGCTCGGCTTCCCCCGCTCCTCTCTGGGCACGCCCCCGCCGGGC
TGCCCTCGGGACCGCCACGGGCCACCGCGCAGGCCTGACCTCTCGGGACACACCCAGCCCTGTGGACCCAGACAC
CGTGGAGGTGTTGATGACCTTTGAACCCGACCCAGCTGATCTTGCCCTATCAAGCATTCTGGCCACGAGACCTT
TGACCTCGAAGACATCGCTTCTCAGAAGAGGAACTTAAGCCCCAGCCAATCATGAAGAAGGCAAGAAAAATCCA
GGTGCCGGAGGAGCAGAAGGATGAGAAATACTGGAGCCGGCGGTACAAGAACAACGAGGCAGCCAAGCGGTCCCG
TGACGCCCCGCGGCTCAAGGAGAACCAGATATCGGTGCGGGCGGCCTTCTGGAGAAGGAGAACGCCCTGCTGCG
GCAGGAAGTTGTGGCCGTGCGCCAGGAGCTGTCCACTACCGCGCCGTGCTGTCCCGATACCAGGCCAGCACGG
GGCCCTGTGAGGCTGCCCCACATCCCCACCTGGCAGGCGTCTCCTCCGCTTGCTGAGACTTACGCCCTGTTCCCT
TCTGCCCTGTGCCACGGGCCGGCCAGCTGGGTGCCCCAGGGACGTGATAATGCAGATAAATACATTTATATT
TTAAGAAAAAGCGAGCCTCCCCCTCTTGGGGGGCGGGGAGGGTTCTCTGTGTGTCCCCGGCACGTCAGGGACC
CTATCCTCCACCGCTCCGTTAACACGATCCTGAATAAATCTTGAGAACCCC

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FIGURE 835

MARPVSDRTPAPLLLGGFAGTPFPGGGALLGLRSLQGTSPKPEPASCLLKEKERKAALPAATTGPGGLETAGPAD
APAGAVVGGGSPRGRPGVPAPGLLAPLLWERTLPFGDVEYVDLDAFLLEHGLPPSPPPPGGPSPEPSPARTPAP
SPGPGSCGSASPRSSPGHAPARAALGTATGHRAGLTSRDTPSPVDPDTVEVLMTFEPDPADLALSSIPGHETFD
RRHRFSEEELKPQPIIMKKARKIQVPEEQKDEKYWSRRYKNNEAAKRSRDARRLKENQISVRAAFLEKENALLRQE
VVAVRQELSHYRAVLSRYQAQHGAL

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FIGURE 836

AGACTCAACAAGAGCTCCAGCAAAGACTTTTCACTGTAGCTTGACCTGAGATTAAGTGGGAATCTTGAGA
ATAAAGATGAGCTCTGAAAATTGTTTCGTAGCAGAGAACAGCTCTTTCATCCGGAGAGTGGACAAGAAAATGAT
GCCACCAGTCCCCATTTCTCAACACGTCATGAAGGGTCCTTCCAAGTTCCTGTCTGTGTGCTGTAATGAATGTG
GTCTTCATCACCATTTTAATCATAGCTCTCATTGCCTTATCAGTGGGCCAATACAATTGTCCAGGCCAATACACA
TTCTCAATGCCATCAGACAGCCATGTTTCTTCATGCTCTGAGGACTGGGTGGCTACCAGAGGAAATGCTACTTT
ATTCTACTGTGAAGAGGAGCTGGACTTCAGCCCCAAAATGCTTGTCTGAACATGGTGCTACTCTTGCTGTCTATT
GATTCTGAAAAGGACATGAACTTTCTAAAACGATACGCAGGTAGAGAGGAACACTGGGTGGACTGAAAAAGGAA
CCTGGTCACCCATGGAAGTGGTCAAATGGCAAAGAATTTAACAACCTGGTTCAACGTTACAGGGTCTGACAAGTGT
GTTTTCTGAAAAACACAGAGGTCAGCAGCATGGAATGTGAGAAGAATTTATACTGGATATGTAACAAACCTTAC
AAATAAATAAGGAAACATGTTCACTTATTGACTATTATAGAATGGAACCTCAAGGAAATCTGTGTGCTGAGTGGATGCTG
CTCTGTGGTCCGAAGTCTTCCATAGAGACTTTGTGAAAAAAATTTTATAGTGTCTTGGGAATTTTCTTCCAAAC
AGAACATATGGAAAAAAAGGAAGAAATTCAGGAAAATCTGCACGTGTGGGCTTTTATTGCCATGAGCTAGAAGCAT
CACAGGTTGACCAATAACCATGCCCCAAGAATGAGAAGAATGACTATGCAACCTTTGGATGCACTTTATATTATTT
TGAATCCAGAAATAATGAAATAACTAGGCGTGGACTTACTATTTATTGCTGAATGACTACCAACAGTGAGAGCCC
TTCATGCATTTGCACTACTGGAAGGAGTTAGATGTTGGTACTAGATACTGAATGTAAACAAAGGAATTATGGCTG
GTAACATAGGTTTTTAGTCTAATTGAATCCCTTAAACTCAGGGAGCATTATATAAATGGACAAATGCTTATGAAAC
TAAGATTTGTAATATTTCTCTCTTTTTAGAGAAATTTGCCAATTTACTTTGTTATTTTTCCCCAAAAGAATGGG
ATGATCGTGATTTATTTTTTTTACTTCCCTCAGCTGTAGACAGGTCCTTTTCGATGGTACATATTTCTTTGCCTTT
ATAATCTTTTATACAGTGTCTTACAGAGAAAAGACATAAGCAAAGACTATGAGGAATATTTGCAAGACATAGAAT
AGTGTGGAAAATGTGCAATATGTGATGTGGCAAATCTCTATTAGGAAATATTCTGTAATCTTCAGACCTAGAAT
AATACTAGTCTTATAATAGGTTTGTGACTTTCCTAAATCAATTCTATTACGTGCAATACTTCAATACTTCATTTA
AAATATTTTTATGTGCAATAAAATGTATTTGTTTGTATTTTGTGTTTCAGTACAATTATAAGCTGTTTTTATATAT
GTGAAATAAAAGTAGAATAAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 837

MSSENCFAENSSLHPESGQENDATSPHFSTRHEGSFQVPVLCVMMNVFITILIIALIALSVGQYNCPGQYTFS
MPSDSHVSSCEDWVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVIDSEKDMNFLKRYAGREEHWGLKKEPG
HPWKWSNGKEFNNWFNVTGSDKCVFLKNTEVSSMECEKNLYWICNKPYK

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FIGURE 838

GGGCAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATCATTACAGATAAACAACCTGAT
GCAGATGTTTCCCCAAGCCCACIATTTTTCTTCCTTCAATTGCTGAAACAAAGCTCCAGAAGGCTGGAACATAC
CTTTGTCTTCTTGAGAAATTTTTCCCTGATGTTATTAAGATACATTGGCAAGAAAAGAAGAGCAACACGATTCTG
GGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGAAATTTAGCTGGTTAACGGTGCCAGAAAAG
TCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATAAAAAACGGAGTTGATCAAGAAATTATCTTT
CCTCCAATAAAGACGGATGTCATCACAATGGATCCCAAAGACAATTGTTCAAAAGATGCAAATGATACACTACTG
CTGCAGCTCACAACACCTCTGCATATTACATGTACCTCCTCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATC
ATCACCTGCTGTCTGCTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGCCACAAGGA
GGCCATCTTTTCTCATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTT
GGGCCATTTTCAGTTCTCATGTGTGTACTATTCTATCATTATTGTATAACGGTTTTCAAACCAGTGGGCACACAGA
GAACCTCACTCTGTAATAACAATGAGGAATAGCCACGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGC
TCCTCCAGCCAACCCAAATAGCGCCTGCTATAGTGTAGACATCCTGCGGCTTCTAGCCTTGTCCCTCTCTTAGTG
TTCTTTAATCAGATAACTGCCTGGAAGCCTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTA
TGTTGGTGTGTTTTTCCGTAATAAGCAAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 839

MQMFPPSPLFFFLQLLKQSSRRLEHTFVFLRNFSMLLLRYIGKKRRATRFWDPRRGTP

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FIGURE 840

GGCTCCTTCGGGAAACCCAGCCCCGTACCGGGCTCCGAGCGGCTCGCAGGCGAGCGACAGCGGCCTCAGCCCCG
GCAGCGCCCGAGCGGGCTGCGGAAAGCGGAGGGAGTCCGACGCGGGCGCGGGCGGGGAGCGTGCCTCCGTTTCGC
ACAGGCAGCGGGAGGAGGGGCGGCGGAACCATGGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCC
CAACGGCGGCGAGCCCTTCCTTATAGGCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTTCGGTGTGTGCTAAGAT
CGTGCAGCTCCTGGGGCAGAATGAGGTGGACTATCGCCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTA
CCGTGTCTTACCTCGGAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGA
CAATGAAGTCACTTCTCAAAACACTCAAAGAAATCACTGAAGGGAAAACAGTCCAGATCCCCGTGTATGACTTTGT
CTCCCATTCGGGAAGGAGGAGACAGTTACTGTCTATCCCGCAGACGTGGTGTCTTTGAAGGGATCCTGGCCTT
CTACTCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTGTGGATACAGATGCGGACACCCGGCTCTCACC
CAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTACGTTTCGTCAA
GCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCT
GGTGGCCATCAACCTCATCGTGCAGCACATCCAGGACATCCTGAATGGAGGGCCCTCCAAACGGCAGACCAATGG
CTGTCTCAACGGCTACACCCCTTCACGCAAGAGGCAGGCATCGGAGTCCAGCAGCAGGCCGCGCATTGACCCCGTCTC
CATCGGACCCAGCCCCCTATCTCCAAGAGACAGAGGAGGGGTGAGGAGGCACTGCTCATCTGTACATACTGTTTC
CTATGACATTACTGTATTTAAGAAAAACCATGGAGATGAAATGCCTTTGATTTTTTTTTTCTTTTGTACTTTG
GAACGACAAAATGAAACAGAACTTGACCCTGAGCTTAAATAACAAAAGTGTGCCAACTACTACTGGTGATGCCTA
ATTATGAATCCAACGTGTAACCAGTTATAAATACATATATATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 841

MAGDSEQTLQNHQQPNNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAK
ALKGQFNFDHPDAFDNELILKTLKEITEGKTIVQIPVYDFVSHSRKEETVTVYPADVVLFEGLAFYSQEVRLDQ
MKLFVDTDADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPRGADNLVAINLIVQHI
QDI LNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH

TGCTTAAAAAACACAGAGGATTTTTCGAAGAATCCTTTCTTAGAAAACAAACAAAAACCGTAACAAAAACGTA
 CTTTCTCCCCACTAGTTTACACACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCACAGGAAGACACAGCA
 GGGAGAAGCCCTAGTGCCTCTGCCGGCTGCCAGGACCTGGTATCGGGCCACAGACCAAGTCTCCACAGAGGGC
 GAGCCAGGGTGGAGAAGAGCCAGCCAGTGCACCAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
 CGGATGGACTATAGCTTTTGATACCACAGCCGAAGACCCCTTGGGTTAGGATTTCTGACTGCATCAAAAACCTTATTT
 AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
 CAGGGCCACCCAGATGGGACCCACCAAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
 AGCAGCACTGTGAAGAAAGGTCTCTCTGTGGCTCCCAAGCCAGCCTGGTTTTCGCCAAAGCTTGAAAGGTTTGAGG
 AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
 CTAGGATCACACATCCGGGCTCTCTCTCTCTCTCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
 TCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCTCTGGGGAGGCAGCAAAACCTCTT
 GGGAAAGCATGAGGAAGGACGGTTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTTGTGCCCCAGCAGCCT
 GAGCAAGTACTGTCTCGGGGTCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCTCCCCCA
 GGGCGGCAGCCCAATCAGAAAACCTTTCCCCCTGGCCCGGACCCGCTCTAAGGCTGCTGTCAACACAGGCTGAG
 GAATCTCAAGGCCAGTGCTCAAGATGCCTAGCCAGCAGCAGGAGCTTCCCCCTGACCAGGTCCAGTCTCTGT
 GAGACGAAGCTACTTGACGAAAAGACCAGCAAACCTCTATCTATCAGCAGCCAAGTGCATCGGCTGTCTATGAAA
 TCCTTGCTGTGCCTTCCATCTTCTATCTCTGTGCCAGACTCCCIGCATCCCCAAGGCAGGGGCATCTCCAACA
 TCATCATCCAACGAAGACTCAGCTGCAAAATGTTTCTGTGAAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
 CTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
 CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAAATTAAAAAACCTCATCGAGGAGGTGAAGGTTCTG
 GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
 TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTCACAGAGTGTTTCCAATGGGCTGGCC
 TCCAGGAAGGGACTATTAGAAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
 CATGATGCCTTGGCCATCTCCGCCAAGCTCGAGAGCCCAGGCAAGCTGTGATTGTCAACAAGGAAGCTGACTCCA
 GAGGCCATGCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTCTGTAGAA
 TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTCCGCAGGGCTGGGCTTCAGCCTGGAAGGA
 GGGAAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
 GAGACAGTCCAGCCTGGAGATGAAATCTTGACGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCC
 TGGAACATCATCAAGGCACTGCCTGATGGACCTGTACGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
 ACCACAGCTGCTGGAGACTCTTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
 CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCAGATGGGGGAAAGCAGAGTGGGCTTCCCAGTGG
 CTGCTGCCCAGGCCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTCTTAAATTAAGGCAGAGTCAACAT
 GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAAATG
 GATTTATTAGAATTCATATGACATTACATGCCCTGGCTTCGCCAAAAGTTTCAAGTACTGTAAGTGTGTCATGATT
 CACCCCCAAACAGTGCATTTATTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
 TGTCCCACCTTGGCATCAGTGGCTGCATGCAAAGTGCATGCAAAGGCTGGGACCACCTGAGATCATTCACTCATA
 ATCTGAGCCGTTGATGTTGGCTGGGAACTCACCTGGGGCTGCTGGCCTGAATGCTTATAGGTGGCCTCTCCTTGTG
 CCCTGGGCTCCTCACACATGGTGTCTGGATTCCAGGATGAGCATCCAGGATCGCAAGAGCCACGTAGAAGCT
 GCATCTTGTTTATACCTTTGCCTTGGAAAGTTGCATGGCATCACTCCACCATACTCCATCAGTTAGAGCTGACAC
 AAACCTGCTTGGGTTTTAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
 ATTTGCAAAATTGTTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
 ACAGGTGAAGCACCAGCTCAAAGCGTGGACAGGTTGTCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAAA
 ATAAAAATTGCTACTACTTACCTACC

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FIGURE 843

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPGTPPKLDTANGTPKVYSADS
STVKKGPPVAPKPAWFRQSLKGLNRASEPRGLPDPALSTQAPASREHLGSHIRASSSSSSIRQRISSEFETFGS
SQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFPPGPDLLRLLSTQAEESSQGPVLKMPQSQRARSFPLTRSQSCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTLHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDASAASASAADSVSVES
TAEATVCTVTLEKMSAGLGFSLGEGKSLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGPVTIVIRRKSLQSKETTAAGDS

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FIGURE 844

TGCTTAAAAAACACACAGGATTTTCGAAGAATCCTTTCTTAGAAAACAAACAAAAAACCAAACAAAAACGTA
CTTTCTCCCCACTAGTTTACACCACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCACAGGAAGACACAGCA
GGGAGAAGCCCTAGTGCCCTCTGCCGGCTGCCAGGACCTGGTATCGGCCACAGACCAAGTCTCCACAGAGGGC
GAGCCAGGGTGGAGAAGAGCCAGCCAGTACCCAAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
CGGATGGACTATAGCTTTGATACACAGCCGAAGACCCTTGGGTIAGGATTTCTGACTGCATCAAAAACTTATTT
AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
CAGGGCCACCCAGATGGGACCCCAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
AGCAGCACTGTGAAGAAAGGTCTCTCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAAGGTTTGAGG
AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
CTAGGATCACACATCCGGGCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
TCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCCTCTGGGGAGGCAGCAAAACCTCTT
GGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCAGGGGCTGCACCCACTCTGTGCCCCAGCAGCCT
GAGCAAGTACTGTCTCGGGTCCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCCCTCCCCCA
GGGCGGCAGCCCAATCAGAAAACTTTCCCCCTGGCCCGGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
GAATCTCAAGGCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCCAGTCTGT
GAGACGAAGCTACTTGACGAAAAGACCAGCAAACTCTATTCTATCAGCAGCCAAGTGTCTCGGCTGTCTAGAAA
TCCTTGCTGTGCCTTCCATCTTCTATCTCTGTGCCAGACTCCCTGCATCCCCAAGGCAGGGGCATCTCCAACA
TCATCATCCAACGAAGACTCAGCTGCAATGGTTCTGTGTAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
CTTTCAGAGCTGAGAGAATATACAGAGGGTCTACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCTT
CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATAAAAAACTCATCGAGGAGGTGAAGGTTCTG
GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTCAACATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTCACAGAGTGTTCCAAATGGGCTGGCC
TCCCAGGAAGGGACTATTGAGAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
CATGATGCCTTGGCCATCTCCGCCAAGCTCGAGAGCCAGGCAAGCTGTGATTGTACAAGGAAGCTGACTCCA
GAGGCCATGCCCCACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTTCTGTAGAA
TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTGGCAGGGCTGGGCTTACGCCTGGAAGGA
GGGAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
GAGACAGTCCAGCCTGGAGATGAAATCTTGACGTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTTGAAGCC
TGGAACATCATCAAGGCACTGCCTGATGGACCTGTACGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
ACCACAGCTGCTGGAGACTCCTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
CTGCTGCCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTTCTAAATAAGGGCAGAGTCACACT
GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAATG
GATTTATTAGAAATTCATATGACATTATGCCTGGCTTCGCAAAATGTTTCAAGTACTGTAAGTGTGTATGATT
CACCCCCAAACAGTGACATTTATTTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
TGTCACCACTTGGCATCAGCTGGCGTCATGCAAGTCAAGGCTGGGACCACTGAGATCACTCACTCATAC
ATCTGGCCGTTGATGTTGGCTGGGAACCTACCTGGGGCTGTGGCCTGAATGCTTATAGGTGGCCTCTCCTTG
GCTGGGCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCCAGGATCGCAAGAGCCACGTAGAAGCT
GCATCTTGTTTATACCTTTGCCTTGAAGTTGCATGGCATCACCTCCACCATACTCCATCAGTTAGAGCTGACAC
AAACCTGCCTGGGTTTAAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
ATTGCAAAATTGTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
ACAGGTGAAGCACCAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAA
ATAAAATTGCTACTACTTACCTACC

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FIGURE 845

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPDGTTPPKLDTANGTPKVYKSADS
STVKKGPPVAPKPAWFRQSLKGLRNRASEPRGLPDPALSTQAPASREHLGSHIRASSSSSSIRQRISSFETFGS
SQLPDKGAQRLSLQPSGGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFFPGPDPLRLRLSTQAEESQGPVLKMPQSRARSFPLTRSQCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTILHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDASAASAASDVSVES
TAEATVCTVTLEKMSAGLGFSLGEGKGLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGPVTIVIRRKSLQSKETTAAGDS

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FIGURE 846

AAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAA
CGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGG
GCCAGCGGAAGTGGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGG
CTGCCGTTCCAGCTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGA
GGCGGAGCATGTGGAGGTGGAGGACACGACCCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCCGC
CAAGTTCGAGGGGAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTCCTAGCAGAAGAGCTCCCGCACAT
CCATGCCTTTGAACAGAAAACCTGACCCAGACCAGTGGGCACGTGAGCGACAGAATGAGGGGACTGGGATCTG
CACAGCCATTAAATTATAAAATCTGGACG

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FIGURE 847

MEI₁SAEYLRKQLQRDLEAEHVEEDTTLNRCSCSFRVLVVS₁AKFEGKPLLQRHRLVNACLAEEI₁PHIHAFEQ₁TL
TPDQWARERQK

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FIGURE 848

ACATACTCCACCTTCAAAAAGTACATCAATATTATATCATTAAAGGAAATAGTAACCTTCTCTTCTCCAATATGCA
TGACATTTTGGACAATGCAATTGTGGCACTGGCACTTATTTTCAGTGAAGAAAACTTTGTGGTTCTATGGCATT
CATCATTTGACAAATGCAAGCATCTTCTTATCAATCAGCTCCTATTGAAGTTACTAGCACTGACTGTGGAATCC
TTAAGGGCCCCATTACATTTCTGAAGAAGAAAGCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGG
CCTAGCTATCACTACACTAGTACAAGCTGTAGATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAG
GCCTTGGTTTACACCCAGATCCATTTATATGGAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTT
CCCAGCCAGATTGCCAGCTAACACACAGATTCTTCTCTACAGACTAACAAATATTGCAAAAATTGAATACTCCAC
AGACTTTCCAGTAAACCTTACTGGCCTGGATTATCTCAAAAACATTTATCTTCAGTCACCAATATTAATGTAAA
AAAGATGCCTCAGCTCCTTTCTGTGTACCTAGAGGAAAACAACTTACTGAACTGCCTGAAAAATGTCTGTCCGA
ACTGAGCAACTTACAAGAACTCTATATTAATCACAACCTTGCTTTCTACAATTTACCTGGAGCCTTTATTGGCCT
ACATAATCTTCTTCGACTTCATCTCAATTCAAATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCC
AAATCTAGAGATTCTGATGATTGGGGAAAAATCCAATTATCAGAATCAAAGACATGAACCTTTAAGCCTCTTATCAA
TCTTCGCAGCCTGGTTATAGCTGGTATAAACCTCACAGAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTT
AGAAAGCATCTCTTTTTACGATAACAGGCTTATTAAGTACCCCATGTGCTCTTCAAAAAGTTGTAAATCTCAA
ATTTTTGGATCTAAATAAAAAATCCTATTAATAGAATACGAAGGGGTGATTTTAGCAATATGTACACTTAAAGA
GTTGGGGATAAATAATATGCCTGAGCTGATTTCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAA
AATAGAAGCTACTAACAACCTTAGATTGTCTTACATTACCCCAATGCATTTTTCAGACTCCCAAGCTGGAATC
ACTCATGTGAACAGCAATGCTCTCAGTGCCTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAAT
CAGCATACACAGTAACCCCATCAGGTGTGACTGTGTCATCCGTGGATGAACATGAACAAAACCAACATTGATT
CATGGAGCCAGATTCACTGTTTTGCGTGGACCCACCTGAATTCGAAGTCAAGATGTTTCGGCAAGTGCATTTTCAG
GGACATGATGGAATTTGTCTCCCTCTTATAGCTCCTGAGAGCTTTCTTCTAATCTAAATGTAGAAGCTGGGAG
CTATGTTTTCTTTCACTGTAGAGCTACTGCAGAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAA
ACTCTTGCTTAATACCCTGACAGACAAGTTCTATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACCTC
CAAAGAAGGGGGTTTATATACTTGTATAGCACTAACCTAGTTGGCGCTGACTGAAGTCTGTATGATCAAAGT
GGATGGATCTTTCCACAAGATAACAATGGCTCTTTGAATATTAATAAGAGATATTCAGGCCAATTCAGTTTT
GGTGTCTGGAAGCAAGTTCTAAAATTCTCAAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTC
TCATGCTGCGCAAAGTCTCGAATACCATCTGATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGA
GTATAAATTTGTATTGATATTTCCACCATCTATCAGAAAAACAGAAAAAATGTGTAATGTCACCACCAAAGG
TTTGACCCCTGATCAAAAAGAGTATGAAAAGAATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGG
GATTATTGGTGTGATATGTCTTATCAGCTGCCTCTCTCCAGAAATGAAGTGTGATGGTGGACACAGCTATGTGAG
GAATTACTTACAGAAACCAACCTTTGCATTAGGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAA
AGAAAAAAGTACATCACTGAAAGTAAAAGCAACTGTTATAGGTTTACCAACAAATATGTCTTAAAAACCAAG
GAAACCTACTCCAAAAATGAACAAAAAAGCGAAAGACTGCAGTTGTGCTAAAAACAAAAACAAACAA
ACAACAAACAAAAAAGTAAAAAAGATTACTTTTCGAGAGAGAAGTTAAGCTTCACCAATGTGCTCCTGACCA
ATGGAAATATGTACAACCTTCAGCATTTTAAAGTAACTGGCTTCAAGGGGTACTGTGGCAACCAATAAAATAACTC
CATTTTCTAAAACCTTCATGTAACCTTTATGTCTGGACTACAGTTCAAGTGGACAAAAACATTTCTGTATTTTTT
TTAAGTAAATAAGAGTAGTTGAAGTGAAGCAATACCTCCTCTGTGTTGTATTACACATATTAGCCACGAGTTTTT
GCAGTGACCAGATAAACTTGAATTGACACGTGGTGTAAATAAATGGACAAATTCGTAGAGTAGACACAGTGAGT
ATGTGGACCTCTTTTATAAGGAAAAATACATTTTGGATTAAAAATCAATTGCTTCTGTCTTGTGTTTCTAAAT
AAAGAATAATTTCTGGGAAAAAAGAAAAAAGAAAAA

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FIGURE 849

MKDMPLRIHVLLGLAITTLVQAVDKKVDPCRLCTCEIREPWFTPRSIYMEASTVDCNDLGLLTFFPARLPANTQILL
LQTNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKMPQLLSVYLEENKLTTELPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLLENLESISFYDNRLIKVPHVALQKVNLKFIDLKKNPINRIRRGDFSNNMLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESMLNSNALSALYHGTIESLPNLKEISIHSPNIRCDV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGNVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRTAEF
QPEIYWITPSGQKLLPNTLTDKFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFVKTENSAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPENMCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 850

GCCACTTCTTCTGGGCCCCACGAGGCAGCTGTCCCATGCTCTGCTGAGCACGGTGGTGCCATGCCTCTGCAACTCC
TCCTGTTGCTGATCCTACTGGGCCCTGGCAACAGCTTGACAGCTGTGGGACACCTGGGCAGATGAAGCCGAGAAAG
CCTTGGGTCCCCTGCTTGGCCGGGACCGGAGACAGGCCACCGAATATGAGTACCTAGATTATGATTTCTGCCAG
AAACGGAGCCTCCAGAAATGCTGAGGAACAGCACTGACACCACTCCTCTGACTGGGCCTGGAACCCCTGAGTCTA
CCACTGTGGAGCCTGCTGCAAGGCGTTTCTACTGGCCTGGATGCAGGAGGGGCAGTCACAGAGCTGACCACGGAGC
TGGCCAACATGGGGAACCTGTCCACGGATTTCAGCAGCTATGGAGATACAGACCACTCAACCAGCAGCCACGGAGG
CACAGACCACTCCACTGGCAGCCACAGAGGCACAGACAACCTCGACTGACGGCCACGGAGGCACAGACCACTCCAC
TGGCAGCCACAGAGGCACAGACCACTCCACCAGCAGCCACGGAAGCACAGACCACTCAACCCACAGGCCTGGAGG
CACAGACCACTGCACCAGCAGCCATGGAGGCACAGACCACTGCACCAGCAGCCATGGAAGCACAGACCACTCCAC
CAGCAGCCATGGAGGCACAGACCACTCAAACCACAGCCATGGAGGCACAGACCACTGCACCAGAAGCCACGGAGG
CACAGACCACTCAACCCACAGCCACGGAGGCACAGACCACTCCACTGGCAGCCATGGAGGCCCTGTCCACAGAAC
CCAGTGCCACAGAGGCCCTGTCCATGGAACCTACTACCAAAAGAGGTCTGTTTCATACCCTTTTCTGTGTCTCTG
TTACTCACAGGGCATTCCCATGGCAGCCAGCAATTTGTCCGTCAACTACCCAGTGGGGGCCCCAGACCACATCT
CTGTGAAGCAGTGCCTGCTGGCCATCCTAATCTTGGCGCTGGTGGCCACTATCTTCTTCTGTGCACTGTGGTGC
TGGCGGTCGCTCTCCCGCAAGGGCCACATGTACCCCGTGCGTAATTACTCCCCACCGAGATGGTCTGCATCT
CATCCCTGTTGCCTGATGGGGGTGAGGGGCCCTCTGCCACAGCCAATGGGGGCTGTCCAAGGCCAAGAGCCCGG
GCCTGACGCCAGAGCCAGGGAGGACCGTGAGGGGGATGACCTCACCTGCACAGCTTCTCCCTTAGCTCACTC
TGCCATCTGTTTTGGCAAGACCCCACTCCACGGGCTCTCCTGGGCCACCCCTGAGTGCCAGACCCCAATCCAC
AGCTCTGGGCTTCTCGGAGACCCCTGGGGATGGGGATCTTCAGGGAAGGAACCTTGCCACCCAAACAGGACAA
GAGCAGCCTGGGGCCAAGCAGACGGGCAAGTGGAGCCACCTCTTCTCCCTCCGCGGATGAAGCCAGCCACAT
TTCAGCCGAGGTCCAAGGCAGGAGGCCATTTACTTGAGACAGATTCTCTCCTTTTCTGTCCCCATCTTCTCT
GGGTCCCTCTAACATCTCCCATGGCTCTCCCCGCTTCTCCTGGTCACTGGAGTCTCCTCCCCATGTACCCAAGGA
AGATGGAGCTCCCCATCCCACACGCACTGCACTGCCATTGTCTTTTGGTTGCCATGGTCACCAACAGGAAGTG
GACATTCTAAGGGAGGAGTACTGAAGAGTGACGCACTTCTGAGGCTGTTTCTGCTGCTCCTCTGACTTGGGGCA
GCTTGGGTCTTCTTGGGCACCTCTCTGGGAAAACCCAGGGTGAGGTTAGCCCTGTGAGGGCTGGGATGGGTTTCG
TGGGCCCCAAGGGCAGACCTTTCTTGGGACTGTGTGGACCAAGGAGCTTCCATCTAGTGACAAGTGACCCCCAG
CTATCGCCTCTTGCTTCCCCTGTGGCCACTTTCCAGGGTGAGTCTGTCTTGTTCAGTATCCCAACTGC
AGGTCCAGTGACGGCA

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FIGURE 851

MPLQLLLLLLILLGPGNSLQLWDTWADEAEKALGPELLARDRRQATEYEYLDYDFLPETEPPEMLRNSTDTTPLTGP
GTPESTTVEPAARRSTGLDAGGAVTELTTELANMGNLSTDSAAMEIQTTQPAATEAQTTPLAATEAQTTRLTATE
AQTTPLAATEAQTTPPAATEAQTTPGTEAQTTPAAMEAQTTPAAMEAQTTPPAAMEAQTTPAAMEAQTTPAAMEAQTTPA
PEATEAQTTPATEAQTTPAAMEALSTEPSATEALSMEPTTKRGLFIPFSVSSVTHKGIPMAASNLSVNYFVG
APDHISVKQCLLAILILALVATIFFVCTVVLAVRLSRKGHMYPVARNYSPTMVCISSLLPDGGEGPSATANGGLS
KAKSPGLTPEPREDREGDDLTHSFLP

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FIGURE 852

GGACGTCGAGGCATTACAATCGCGAAACCAAGCCATAGCATGAAACAGCGAGCTTGCAGCCTCACCGACGAGTCT
CAACTAAAAGGGACTCCCGGAGCTAGGGGTGGGGACTCGGCCTCACACAGTGAGTGCCGGCTATTGGACTTTTGT
CCAGTGACAGCTGAGACAACAAGGACCACGGGAGGAGGTGTAGGAGAGAAGCGCCGGAACAGCGATCGCCCAGC
ACCAAGTCCGCTTCCAGGCTTTCGGTTTCTTTGCCTCCATCTTGGGTGCGCCTTCCCGGCGTCTAGGGGAGCGAA
GGCTGAGGTGGCAGCGGCAGGAGAGTCCGGCCGCGACAGGACGAACTCCCCACTGGAAAGGATTCTGAAAGAAA
TGAAGTCAGCCCTCAGAAATGAAGTTGACTGCCTGCTGGCTTTCTCTGTGACTGGCCCGGAGCTGTACTGCAAGA
CCCTTGTGAGCTTCCCTAGTCTAAGAGTAGGATGCTGCTGTAAGTCATCCATCAGGTTGAAGAAGCACTTGATAC
AGATGAGAAGGAGATGCTGCTCTTTTGTGCCGGGATGTTGCTATAGATGTGGTTCCACCTAATGTCAGGGACCT
TCTGGATATTTTACGGGAAAGAGGTAAGCTGTCTGTCCGGGACTTGGCTGAACTGCTCTACAGAGTGAGGCGATT
TGACCTGCTCAAACGTATCTTGAAGATGGACAGAAAAGCTGTGGAGACCCACCTGCTCAGGAACCCCTCACCTTGT
TTCGGACTATAGATGCTGATGGCAGAGATTGGTGAGGATTTGGATAAATCTGATGTGCTCTATTAAATTTTCT
CATGAAGGATTACATGGCCGAGGCAAGATAAGCAAGGAGAAGAGTTCTTGGACCTTGTGGTTGAGTTGGAGAA
ACTAAATTTGGTTGCCCGAGATCAACTGGATTTATTAGAAAAATGCCTAAAGAACATCCACAGAATAGACCTGAA
GACAAAAATCCAGAAGTACAAGCAGTCTGTTCAAGGAGCAGGGACAAGTTACAGGAATGTTCTCCAAGCAGCAAT
CCAAAAGAGTCTCAAGGATCCTTCAAATAAAGTTCAGGCTCCATAATGGGAGAAGTAAAGAACAAAGACTTAAGGA
ACAGCTTGGCGCTCAACAAGAACCAGTGAAGAAATCCATTAGGAATCAGAAGCTTTTTTGCCTCAGAGCATAACC
TGAAGAGAGATACAAGATGAAGAGCAAGCCCTAGGAATCTGCCTGATAATCGATTGCATTGGCAATGAGACAGA
GCTTCTTCGAGACACCTTCACTTCCCTGGGCTATGAAGTCCAGAAATCTTGCATCTCAGTATGCATGGTATATC
CCAGATTCTTGGCCAATTTGCCTGTATGCCGAGCACCAGACTACGACAGCTTTGTGTGTGCTCTGGTGAGCCG
AGGAGGCTCCAGAGTGTGTATGGTGTGGATCAGACTCACTCAGGGCTCCCCCTGCATCACATCAGGAGGATGTT
CATGGGAGATTATGCCCTTATCTAGCAGGGAAGCCAAAGATGTTTTTTATTCAGAACTATGTGGTGTGAGAGGG
CCAGCTGGGAGAACAGCAGCCTCTTGGAGGTGGATGGGCCAGCGATGAAGAATGTGGAATTCAGGCTCAGAAGCG
AGGGCTGTGCACAGTTCACCGAGAAGCTGACTTCTTCTGGAGCCTGTGTACTGCGGACATGTCCCTGCTGGAGCA
GTCTCACAGCTCACCGTCCCTGTACCTGCAGTGCCTCTCCAGAACTGAGACAAGAAAGAAAACGCCCACTCCT
GGATCTTCACATTGAACTCAATGGCTACATGTATGATTGGAACAGCAGAGTTCTGCGCAAGGAGAAATATTATGT
CTGGCTGCAGCACACTCTGAGAAAGAACTTATCCTCTCTACACATAAGAAACCAAAAGGCTGGGCGTAGTGGC
TCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGGGCAGATCACTCAGGTCAGGAGTTCGAGACCAGCCT
GGCCAACATGGTAAACGCTGTCCCTAGTAAAAATGCAAAAATTAGCTGGGTGTGGGTGTGGGTACCTGTGTTCCC
AGTTACTTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCAGGAGTTCAGGGTCATAGCATGCTGTGATTGTGCC
TACGAATAGCCACTGCATACCAACCTGGGCAATATAGCAAGATCCCATCTCTTTAAAAA

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FIGURE 853

MSAEVIHQVEEALDTDEKEMLLFLCRDVAIDVPPNVRDLLDILRERGKLSVGDLAELLYRVRRFDLLKRILKMD
RKAVETHLLRNPHLVSDYRVLM AEIGEDLDKSDVSSLIFLMKDYMGRGKISKEKSFLDLVVELEKLNLVAPDQLD
LLEKCLKNIHRIDLKTKIQKYKQSVQGAGTSYRNVLQAAIQKSLKDPSNNFRLHNGRSKEQRLKEQLGAQQEPVK
KSIQSESAFLPQSIPEERYKMMSKPLGICLIIDCIGNETELLRDTFTSLGYEVQKFLHLSMHGISQILGQFACMP
EHRDYDSFVCVLVSRGGSQSVYGVDQTHSGLPLHHIRRMFMGDSCPYLAGKPKMFFIQNYVVSEGQLENSLLEV
DGPAMKNVEFKAQKRGLCTVHREADFFWSLCTADMSLLEQSHSSPSLYLQCLSQKLRQERKRPLLDLHIELNGYM
YDWNSRVSACEKYYVWLQHTLRKKLILSYT

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FIGURE 854

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAAGTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAAGTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCGCTCTCTGAC
TTCCTCTACTTGCCTGCTCGGCCAGCCTGGGGGGCCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGCCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 855

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPPWNVDTL SKDGF SKSMVNTKPEKTEEDSEEVREQKHKT
FVEKEYEQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTI VMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVMQLQDAISKMDPTDAKYHMQR CIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 856

TTTTTGCAACCAACATGGTTCATTAAAACTCTCTTTGACTATGGCATTCAAGGACAGCAATACAATCTTTTT
TTTTTTAACAAGCAACTAATATAAAAACTGCAAATGCCATATATTCATATCTAGGCTATTCTTCTCATATAGG
CATGTCATTAGATAGACTTTCTTTCTATTCTTTCCTGAGGTATTTTTTTGTGGTTTACTTTTATTGTACTGCTGG
ATGCATTATTTTTGATCATCTTTCCTAAAATGATTTAAAGACCTGCAAATAATTTTATTGCATAGGACACTATT
GATGACACATAGAATGGGAGCTGCAAGTATGTGGCATTGGAACAAGCCTTACAAATATTGCATTTTAAGAATACA
CACATTTTTTACAGTTTGTCTCTTTTAAAAAATTTGAAGTTATAGC

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FIGURE 857A

CCTACTCTATTTCAGATATTCTCCAGATTCTAAAGATTAGAGATCATTCTCATTCTCCTAGGAGTACTCACTTC
AGGAAGCAACCAGATAAAAGAGAGGTGCAACGGAAGCCAGAACATTCTCTCGGAAATTCAACCTGTTTCGCAGT
TTCTCGAGGAATCAGCATTTCAGTCAATCCGGGCCGGGAGCAGTCATCTGTGGTGAGGCTGATTGGCTGGGCAGGA
ACAGCGCCGGGGCGTGGGCTGAGCACAGCGCTTCGCTCTCTTTGCCACAGGAAGCCTGAGCTCATTTCGAGTAGCG
GCTCTTCCAAGCTCAAAGAAGCAGAGGCCGCTGTTCGTTTCTTTAGGTCTTTCCACTAAAGTCGGAGTATCTTC
TTCCAAGATTTACGCTCTTGGTGGCCGTTCCAAGGAGCGCGAGGTGCGGATGGATCTTGAAGGGGACCGCAATGG
AGGAGCAAAGAAGAAGAACTTTTTAAACTGAACAATAAAAGTGAAAAAGATAAGAAGGAAAAGAAACCAACTGT
CAGTGTATTTTCAATGTTTCGCTATTCAAATTGGCTTGACAAGTTGTATATGGTGGTGGGAACTTTGGCTGCCAT
CATCCATGGGGCTGGACTTCTCTCATGATGCTGGTGTGGGAGAAATGACAGATATCTTTGCAAATGCAGGAAA
TTTAGAAGATCTGATGTCAAACATCACTAATAGAAGTGATCAATGATACAGGGTTCTTCATGAATCTGGAGGA
AGACATGACCAGGTATGCCTATTATTACAGTGGAAATGGTGTCTGGGGTGTGGTTGCTGCTTACATTTCAGGTTTC
ATTTTGGTGCCTGGCAGCTGGAAGACAAATACACAAAATTAGAAAACAGTTTTTTCATGCTATAATGCGACAGGA
GATAGGCTGGTTTGTATGTGCACGATGTTGGGGAGCTTAACACCCGACTTACAGATGATGTCTCCAAGATTAATGA
AGGAATTGGTGACAAAATTGGAATGTTCTTTTCAGTCAATGGCAACATTTTTCAGTGGGTTTATAGTAGGATTTAC
ACGTGGTTGGAAGCTAACCCCTTGTGATTTTGGCCATCAGTCTGTCTTGGACTGTCAGCTGCTGTCTGGGCAAA
GATACTATCTTCATTTACTGATAAAGAAGCTTTAGCGTATGCAAAAGCTGGAGCAGTAGCTGAAGAGGTCTTGGC
AGCAATTAGAACTGTGATTGCATTTGGAGGACAAAAGAAAGAACTTGAAAGGTACAACAAAATTTAGAAGAAGC
TAAAGAATTGGGATAAAGAAAGCTATTACAGCCAATATTTCTATAGGTGCTGCTTCTGCTGATCTATGCATC
TTATGCTCTGGCCTTCTGGTATGGGACCACCTTGGTCTCTCAGGGGAATATTCTATTGGACAAGTACTCACTGT
ATTTTCTGTATTAATTGGGGCTTTTAGTGTGGACAGGCATCTCCAAGCATTGAAGCATTGCAAATGCAAGAGG
AGCAGCTTATGAAATCTTCAAGATAATTGATAATAAGCCAAGTATTGACAGCTATTGGAAGAGTGGGCACAAACC
AGATAATATTAAGGGAATTTGGAATTCAGAAATGTTCACTTCAGTTACCCATCTCGAAAAGAAGTTAAGATCTT
GAAGGGTCTGAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCCCTGGTTGGAAACAGTGGCTGTGGGAAGAGCAC
AACAGTCCAGCTGATGCAGAGGCTCTATGACCCACAGAGGGGATGGTCAGTGTGATGGACAGGATATTAGGAC
CATAAATGTAAGGTTTCTACGGGAAATCATTGGTGTGGTGAGTCAGGAACCTGTATTGTTTGGCCACCACGATAGC
TGAAAACATTCGCTATGGCCGTGAAAATGTCACCATGGATGAGATTGAGAAAGCTGTCAAGGAAGCCAATGCCTA
TGACTTTATCATGAAACTGCCTCATAAATTTGACACCCTGGTTGGAGAGAGAGGGGGCCAGTTGAGTGGTGGGCA
GAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTGCGCAACCCCAAGATCCTCCTGCTGGATGAGGCCACGTCAGC
CTTGGACACAGAAAAGCGAAGCAGTGGTTTCAGGTGGCTCTGGATAAGGCCAGAAAAGGTTCGGACCACCATTTGTGAT
AGCTCATCGTTTGTCTACAGTTCGTAATGCTGACGTCATCGCTGGTTTCGATGATGGAGTCATTGTGGAGAAAGG
AAATCATGATGAACTCATGAAAGAGAAAGGCATTACTTCAAACCTTGTCAATGCAGACAGCAGGAAATGAAGT
TGAATTAGAAAATGCAGCTGATGAATCCAAAAGTGAAATTGATGCCTTGGAAATGTCTTCAAATGATTCAAGATC
CAGTCTAATAAGAAAAAGATCAACTCGTAGGAGTGTCCGTGGATCACAAGCCCAAGACAGAAAGCTTAGTACCAA
AGAGGCTCTGGATGAAAGTATACCTCCAGTTTCTTTTGGAGGATTATGAAGCTAAATTTAACTGAATGGCCTTA
TTTTGTTGTTGGTGATTTTGTGCCATTATAAATGGAGGCCTGCAACCAGCATTGCAATAATATTTTCAAAGAT
TATAGGGGTTTTTACAAGAATTGATGATCCTGAAACAAAACGACAGAATAGTAACTGTTTTCACTATTGTTTTCT
AGCCCTTGGAAATTATTTCTTTTATTACATTTTCTTTCAGGGTTTCACATTTGGCAAAGCTGGAGAGATCCTCAC
CAAGCGGCTCCGATACATGGTTTTCCGATCCATGCTCAGACAGGATGTGAGTTGGTTTGTATGACCCTAAAAACAC
CACTGGAGCATTGACTACCAGGCTCGCCAATGATGCTGCTCAAGTTAAAGGGGCTATAGGTTCCAGGCTTGCTGT
AATTACCCAGAATATAGCAAATCTTGGGACAGGAATAATTATATCCTTCACTATGTTGGCAACTAACACTGTT
ACTCTTAGCAATTGTACCCATCATTGCAATAGCAGGAGTTGTTGAAATGAAAATGTTGTCTGGACAAGCACTGAA
AGATAAGAAAGAACTAGAAGGTGCTGGGAAGATCGCTACTGAAGCAATAGAAAACCTCCGAACCGTTGTTTCTTT
GACTCAGGAGCAGAAAGTTTGAACATATGTATGCTCAGAGTTTGAGGTACCATACAGAACTCTTTGAGGAAAGC
ACACATCTTTGGAATTACATTTTCTTTCACCCAGGCAATGATGTATTTTCTATGCTGGATGTTTCCGGTTTGG
AGCCTACTTGGTGGCACATAAACTCATGAGCTTGGAGGATGTTCTGTTAGTATTTTTCAGCTGTTGTCTTGGTGC
CATGGCCGTGGGGCAAGTCAGTTCATTTGCTCCTGACTATGCCAAAGCCAAAATATCAGCAGCCACATCATCAT
GATCATTGAAAAACCCCTTTGATTGACAGCTACAGCACGGAAGGCCTAATGCCGAACACATTGGAAGGAAATGT
CACATTTGGTGAAGTTGTATTCAACTATCCACCCGACCGGACATCCAGTGCTTCAGGGACTGAGCCTGGAGGT

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FIGURE 857B

GAAGAAGGGCCAGACGCTGGCTCTGGTGGGCAGCAGTGGCTGTGGGAAGAGCACAGTGGTCCAGCTCCTGGAGCG
GTTCTACGACCCCTTGGCAGGGAAAGTGCTGCTTGATGGCAAAGAAATAAAGCGACTGAATGTTTCAGTGGCTCCG
AGCACACCTGGGCATCGTGTCCCAGGAGCCCATCCTGTTTACTGCAGCATTGCTGAGAACATTGCCATATGGAGA
CAACAGCCGGGTGGTGTACAGGAAGAGATTGTGAGGGCAGCAAAGGAGGCCAACATACATGCCTTCATCGAGTC
ACTGCCTAATAAATATAGCACTAAAGTAGGAGACAAAGGAAGTCAAGTCTCTGGTGGCCAGAAACAACGCATTGC
CATAGCTCGTGCCCTTGTTAGACAGCCTCATATTTTGCTTTTGGATGAAGCCACGTCAGCTCTGGATACAGAAAG
TGAAAAGGTTGTCCAAGAAGCCCTGGACAAAGCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCGCCTGTC
CACCATCCAGAATGCAGACTTAATAGTGGTGTTCAGAATGGCAGAGTCAAGGAGCATGGCACGCATCAGCAGCT
GCTGGCACAGAAAGGCATCTATTTTTCAATGGTCAGTGTCCAGGCTGGAACAAAGCGCCAGTGAAGTCTGACTGT
ATGAGATGTTAAATACTTTTTAAIATTTGTTTAGATATGACATTTATTCAAAGTTAAAAGCAAACACTTACAGAA
TTATGAAGAGGTATCTGTTTAACATTTCCCTCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAAGGAACAG
AGTGAGAGACATCATCAAGTGGAGAGAAATCATAGTTTAAAGTGCATTATAAATTTTATAACAGAATTAAAGTAG
ATTTTAAAAGATAAAATGTGTAATTTTGTATATTTCCCATTTGGACTGTAAGTACTGCCTTGCTAAAAGAT
TATAGAAGTAGCAAAAAGTATTGAAATGTTGCATAAAGTGTCTATAATAAACTAACTTTTCATGTG

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FIGURE 858

MDLEGDRNGGAKKKNFFKLNNKSEKDKKEKKPTVSVFSMFRYSNWLDKLYMVVGTAAIIHGAGLPLMMLVFGEM
TDIFANAGNLEDLMSNITNRSDINDTGFFMNLEEDMTRYAYYYSGIGAGVLVAAYIQVSFWCLAAGRQIHKIRKQ
FFHAIMRQEIGWFDVHVDVGELNTRLTDDVSKINEGIGDKIGMFFQSMATFFTGFIVGFTRGWKLTILVILAI SPVL
GLSAAVWAKILSSFTDKELLAYAKAGAVAEVLAARTVIAFGGQKKELEERYNKNLEEAKRIGIKKAITANISIG
AAFLLIYASYALAFWYGTTLVLSGEYSIGQVLTIVFSVLIGAFSVGQASPSIEAFANARGAAYEIFKIIDNKPSID
SYSKSGHKPDNIKGNLEFRNVHFSYPSRKEVKILKGLNLKVQSGQTVALVGNSSGCGKSTTVQLMQRLYDPTEGMV
SVDGQDIRTINVRFLREIIGVVSQEPVLFATTIAENIRYGRENVMTDEIEKAVKEANAYDFIMKLPKFDTLVGE
RGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAVVQVALDKARKGRTTIVIAHRLSTVRNADVIAGF
DDGVIVEKGNHDELMKEKGIYFKLVTMQTAGNEVELENAADESKSEIDALEMSSNDSRSSLRKRSTRRSVRGSQ
AQDRKLSTKEALDESIPPVSFWRIMKLNLTWPYFVVGVFCAIINGGLQPAFAIIFSKIIGVFTRIDDPETKRQN
SNLFSLLFLALGIIISFITFFLQGFTFGKAGEILTKRLRYMVFRSMLRQDVSWFDDPKNTTGALTTRLANDAAQVK
GAIGSRLAVITQNIANLGTGIIISFIYGWQLTLLLLLAIVPIIAIAGVVEMKMLSGQALKDKKELEGAGKIA TEAI
ENFRITVVSILTQEQKFEHMYAQS LQVPYRNSLRKAHIFGITFSFTQAMMYFSYAGCFRFGAYLVAHKLMSFEDVLL
VFSAVVFGAMAVGQVSSFPDYAKAKISAHHIIMIEKTPLIDSYSTEGLMPNTLEGNTVFGEVVFNYPTRPDIP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGKVLLDGKEIKRLNVQWLRHLGIVSQEPILFDCS
IAENIAYGDNRRVVSQEEIVRAAKEANIHAFIESLPNKYSTKVGDKGTQLSGGQKQRIAIARALVRQPHILLLDE
ATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFSMVSQAG
TKRQ

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FIGURE 859A

TGCCGCTTCCGCGGTACATGACTCCAGTCTAGCTCGCATTGCGCTCCCGCCGGCGAGTTCTCCCCGCGCGCGGT
TGCGAGGAGACGGCGCATGTCCGCGCGCTTGCCCTCTGCAGTACCCCGCCCTTCTTCCACCACAATGAGATC
TAAGTGGGTGCTGCGGTGCGTACGTGAGGTGAAAAAGCGCACTGGGACGGCAGCCAGGAAACGTGTGGGCTCT
CTGCTGCGGTCTCCGAGGGCCGACCGCTGCCGCGCGGGTCTGCGGGCTGACTGTGCTCTGCTTTGACAGGA
GAGGCTGCTTCTTGTAGAGGAAACAGCTTTGAAGTGTGGAGCGGAAAGGAGCAGTTTCTGAGCTGCAAAAACTA
GTTTCTAAACAGAGAGTTAATTGTTAAATCCAGTATGCGCCACAGGAGGAGGTCCCTTTGAAGATGGCATGAATGA
TCAGGATTTACCAAATGGAGTAATGAGAATGTTGATGACAGGCTCAACAATATGGATTGGGGTGCCCAACAGAA
GAAAGCAAATAGATCATCAGAAAAGAAATAAGAAAAAGTTTGGTGTAGAAAAGTGATAAAAGAGTAACCAATGATAT
TTCTCCGAGTCTGTCACCAGGAGTTGGAAGGCGAAGAACAAGACTCCACATACGTTCCACACAGTAGATACAT
GAGTCAGATGTCTGTCCAGAGCAGGCAGAATTAGAGAACTGAAACAGCGGATAAACTTCAGTGATTAGATCA
GAGAAGCATTGGAAGTGATTCCCAAGGTAGAGCAACAGCTGCTAACACAAACGTCAGCTTAGTGAACCCGAAA
GCCCTTCAACTTTTTTGCTATGCAGATTAATACTAACAGAGCAAAGATGCATCTACAAGTCCCCAACAGAGA
AACGATTGGATCAGCACAGTGTAAGAGTTGTTTGCTTCTGCTTTAAGTAATGACCTTTGCAAACTGTCAGGT
GTCTGAAGAAGATGGGAGGGGAGAACCCTGCAATGGAGAGCAGCCAGATTGTAAGCAGGCTTGTTCAAATTCGCGA
TTATATTACTAAAGCTAGTTCCATGCGGGAAGATCTTGTAGAGAAAAATGAGAGATCTGCTAATGTTGAGCGCT
TACTCATCTAATAGATCACCTTAAAGAACAAGAGAAGTCATATATGAAATTTCTTAAAAAATCCTTGCCAGAGA
TCCTCAGCAGGAGCCTATGGAAGAGATAGAAAATTTGAAGAAACAACATGATTTATTAAGAAATGTTACAACA
GCAGGAGCAACTAAGAGGAGCTCTACAGGGACGGCAGGCTGCATTCTAGCTCTGCAACATAAAGCAGACGAAGC
TATTGCAGTGATGGATGATTCTGTTGTTGCAGAACTGCAGGTAGCTTATCTGGCGTCAGTATCACATCTGAAC
AAATGAAGAATTGAATGACTTAATTCAGCGTTTTCTAATCAGCTTCGTGATTCTCAGCTCCAGCTGTTCCAGA
CAATAGAAGACAGGCAGAAAGTCTTTTCTAATACTAGGGAGGTTTCCAGAGCAGGAAACCATCAGCTTCAGAACG
TTTACCTGATGAGAAAGTCGAACCTTTTTAGCAAAATGAGAGTGCTACAGGAAAAGAAACAAAAATGGACAAAT
GCTTGGAGAACTTCATACACTTCGAGATCAGCATCTTAACAATTCATCATCTCTCCACAAAGGAGTGTCGATCA
GAGAAGTACTTCAGCTCCCTCTGCTTGTCTAGGCTTGGCACCAGTTGTCAATGGAGAATCCAATAGCCTCACATC
ATCTGTTCTTATCTACTGCTTCTCTAGTATCTCAGAATGAGAGTGAACGAAGGCCACCTCAATCCATCTGA
AAAACCTCCAGAAGTTAAATGAAGTTCGAAAGAGATTGAATGAGCTAAGAGAATTAGTTTATTATTGAACAAAC
GTCAGACATGATGACAGATGCTGTGAATGAAACAGGAAAGATGAAGAACTGAAGAGTCAGAATATGATTCTGA
GCATGAAAATTCGAGCCTGTTACTAATTCGAAATCCACAAGTAGCTTCCACTTGAATGAAGTAAATAGTCA
TAGTAATGCACAGTGTGTTTCTAATAATAGAGATGGGCGAACAGTTAATTCTAATTGTGAAATTAACAACAGATC
TGCTGCCAACATAAGGGCTCTAAACGTGCCTCCTTCTTTAGATTGTGATATAATAGAGAAGGGGAACAGGAGAT
TCATGTTGCACAAGGTGAAGATGATGAGGAGGAGGAGGAAGAAGCAGAAGAGGAGGGAGTCAGTGGAGCTTCATT
ATCTAGTCACAGGAGCAGTCTGTTGATGAGCATCCAGAAGATGCTGAATTTGAACAGAAGATCAACCGACTTAT
GGCTGCAAAACAGAACTTAGACAGTTACAAGATCTTGTGCTATGGTACAGGATGATGATGCAGCTCAAGGAGT
TATCTCTGCCAGTGCATCAAATTTGGATGATTCTACCCAGCAGAAGAAGACACCAAGCAAAATTCAAATAACAC
TAGAGGAAATGCCAATAAAACACAGAAAGATACTGGAGTAAATGAAAAGGCAAGAGAGAAATTTATGAGGCTAA
ACTACAGCAGCAACAGAGAGAGCTAAAACAATTGCAGGAAGAAAGAAAGAACTGATTGACATTCACGAGAAAT
TCAAGCATTGCAACGGCATGCCCTGACTTACAGCTGTCAGCTGCTAGTGTGGGTAAGTGTCTACCAAAAAATA
TATGCCAGCTGTTACTTCAACCCCAACTGTTAATCAACACGAGACCAGTACAAGCAATCTGTTTTTGAGCCTGA
AGATTCTTCAATAGTAGATAATGAGTTGTGGTCAGAAATGAGAAGACATGAAATGTTGAGGGAGGAGCTGCGACA
GAGAAGAAAGCAGCTTGAAGCTCTGATGGCTGAACATCAGAGGAGGCAAGGTCTAGCTGAACTGCATCTCCAGT
GGCTGTGTCATTGAGAAGTGATGGATCTGAGAACCCTATGTACTCTCAGCAAAGTAGAACAGAAAAACGATGGC
AACTTGGGGAGGGTCTACCCAGTGTGCACTAGATGAAGAAGGAGATGAAGACGGTTACCTTTCTGAAGGAATTGT
TCGGACAGATGAAGAGGAGGAAGAAGAGCAAGATGCCAGTTCCAATGATAACTTTTCTGTGTGCTCTTCAACAG
TGTAATCATAACTCTTACAATCGAAAGGAACTAAAAATACGTGGAAGAACAATTGCCCTTTTTCGGCAGATGA
AAATTATCGTCTTTAGCCAAGACAAGGCAACAGAAATATCAGCATGCAACGGCAAGAAAACCTTCGTTGGGTGTC
AGAGCTCTCTTACGTAGAAGAGAAAGAAACAATGGCAAGAACAATCCAGCTAAAGAAACAGCTTGATTTTAGTGT
CAGTATTTGTGACAGCTTTGATGCAAGACCAGCAGACTCTATCTTGTCTGCTACAACTCTTCTCACGGGTCTCTTA
CAGTGTATGCCAGCAATGTTGCATCTCTCAAGTACACTTCATAATGCACCAGTTGAACCAGTGCTATACTCA

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FIGURE 859B

GCTAACATGGCAACAGAATAATGTTTCAGAGGTTGAAACAAATGCTAAATGAACTTATGCGCCAACGAAATCAGCA
TCCAGAAAAACCTGGAGGCAAGGAAAGAGGCAGTAGTGCATCGCACCCCTCCTTCTCCAGTTTATTTTGTCTTT
CAGCTTTCCAACACAGCCTGTAAATCTCTTCAATATACCTGGATTTACTAATTTTCATCATTGACACAGGTAT
GAATTTAGCCCTTTATTTCTTCTAATTTTGGAGATTTTCTCAGAATATCTCTACACCCAGTGAACAGCAGCA
ACCCTTAGCCAGAATTCTTTAGGAAAAACAGAATATATGGCTTTTCCAAAACCTTTTGAAAGCAGTTCTCTAT
TGGAGCAGAGAAACCAAGGAATAAAAACTGCCTGAAGAGGAGGTGAAAGCAGTAGGACACCATGGTTATATGA
ACAAGAAGGTGAAGTAGAGAAACCATTATCAAGACTGGATTTTCAGTGTCTGTAGAAAAATCTACAAGTAGTAA
CCGCAAAAATCAATTAGATACAAACGGAAGAAGACGCCAGTTTGATGAAGAATCACTGGAAAGCTTTAGCAGTAT
GCCTGATCCAGTAGATCCAACAACAGTGACTAAAACATTCAAGACAAGAAAAGCGTCTGCACAGGCCAGCCTGGC
ATCTAAAGATAAACTCCCAAGTCAAAAAGTAAGAAGAGGAATTCTACTCAGCTGAAAAGCAGAGTTAAAAACAT
CAGGTATGAAAGTGCCAGTATGTCTAGCACATGTGAACCTTGCAAAAGTAGGAACAGACATTCAGCCCAGACTGA
AGAGCCTCTTCAAGCAAAAAGTATTAGCAGAGAAAGATCATGAGCAACTGGAAAAATAATAAAATGTAATAGGTC
TACAGAAATATCTTCAGAACTGGGAGTGATTTTTCCATGTTTGAAGCTTTCAGGATACTATTTATTCTGAAGT
AGCTACATTAATTTCTCAAAATGAATCTCGTCCACATTTTCTTATTGAACTCTTCCATGAGCTGCAGCTACTAAA
CACAGACTACTTGAGACAGAGGGCTTTATATGCATTGCAGGACATAGTATCCAGACATATTTCTGAGAGCCATGA
AAAAGGAGAAAATGTAAAGTCAGTAACTCTGGTACTTGGATAGCATCAAACCTCAGAACTTACTCCTAGTGAGAG
CCTTGCTACTACTGATGATGAAACTTTTGGAGAAGACTTTGAAAGAGAAACCCATAAAATAAGTGAGCAAAATGA
TGCTGATAATGCTAGTGTCTGTCTGTATCATCAAATTTTGAAGCTTTTGAACAGATGATCTAGGTAACACCGT
GATTCCTTAGATCAAGCATTAGCCAGAATGAGAGAATATGAGCGTATGAAGACTGAGGCTGAAAGTAACCTCAA
TATGAGATGCACCTGCAGGATTATTGAGGATGGAGATGGTGTCTGGTGCAGGTACTACAGTTAATAATTTAGAAGA
AACTCCCGTTATTGAAATCGTAGTTTCAACAACCTGTAAGTGAAGTTTCTACCATCCCATGCTCTAGAAATGA
TACTCAGCAGCTGGACCGGCAAAATTAAGCAATTATGAAGAAGTCATTCCTTTTGAAGGAGCACATGGATGA
AGTATGCTCCTCGCAGCTTCTAATTCAGTAAGGCGCATGGTTTTGACCCTTACCCAGCAAAATGATGAGAGCAA
AGAGTTTGTAAAGTTCTTTCATAACAACCTGGAAGTATATTACAGGATTCAGTGGCAAAATTTGCTGGCAGAAA
ACTGAAAGACTGTGGAGAAGATCTTCTGTAGAGATATCTGAAGTGTGTTCAATGAATTGGCTTTCTTTAAGCT
TATGCAAGATTTGGATAATAATAGTATAACTGTTAAACAGAGATGCAAAAGGAAAATAGAAGCAACTGGAGTGAT
ACAATCTTGTGCCAAAGAGGCTAAAAGGATTCTTGAAGATCATGGCTCACCTGCTGGAGAGATGATGATGAAGA
CAAAGACAAGGATGAAACTGAAACAGTTAAGCAGACTCAAACATCTGAGGTGTATGATGGTCCAAAAATGTAAG
ATCTGATATTTCTGATCAAGAGGAAGATGAAGAAAGTGAAGGATGTCCAGTGTCTATTAATTTGCTTAAAGCTGA
AACTCAGGCTTTAACTAATTATGGAAGTGGAGAAGATGAAATGAGGATGAAGAAATGGAAGAATTTGAAGAAGG
CCCTGTGGATGTCCAGACTTCCCTCCAGGCTAACACTGAAGCTACTGAAGAAAATGAACATGATGAACAGGTCCT
ACAACGTGACTTTAAAAAGACAGCAGAAAGCAAAATGTCCATTGGAACGAGAAGCCACTAGTAAAAATGACCAA
AAATAACTGTCTGTGAAACCCAGTTACCTCAATATCTTGGAAAGATGAGCAACCTTTAAATAGTGCTGCCCATAA
GGAGTCACCTCTACTGTTGATTCAACTCAACAGCCTAACCTTTGCCGTTACGTTTACCTGAAATGGAACCCCTT
AGTGCCTAGAGTCAAAGAAGTTAAATCTGCTCAGGAACTCCTGAAAGCTCTCTGGCTGGAAGTCTGTATCTGA
ATCTCCAGTGTTAGTGAATGACTATGAAGCAGAACTCTGGTAATATAAGTCAAAAGTCTGATGAAGAAGATTTTGT
AAAAGTTGAAGATTTACCACTGAACTGACAATATATTAGAGGCAGATCTAAGAAAAGAAAATGGTAGAAGAAGA
ACAGAAAACCATTTATCTGGTGAATGTGTGAAATGCAGACCGAAGAATTAGCTGGAAATTTCTGAGACACTAAA
AGAACCTGAAACGGTGGGAGCCAGAGTATATGAGATGTCTTCAGAGGCTCATCTAACTCTGTCTTACATACTC
AATGCATATATGAAAACAATACTAAATAAACATCTGATCTGTATAAAAAATCT

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FIGURE 860

MATGGGPFEDGMNDQDLPNWSNENVDDRLNMDWGAQQKKANRSSEKNKKKFGVESDKRVTNDISPESPPGVGRR
RTKTPHTFPHSRYSQMSVPEQAELEKLKQRINFSDLDQRSIGSDSQGRATAANNKRQLSENKRKPFNFLPMQINT
NKSKDASTSPPNRETIGSAQCKELFASALSNDLLQNCQVSEEDGRGEPAMESSQIVSRLVQIRDYITKASSMRED
LVEKNERSANVERLTHLIDHLKEQEKSYMFKLKKILARDPQQEPMEIEIENLKKQHDLLKRMLOQQEQQLRGALQGR
QAALLALQHKADEAIAVMDDSVVAETAGSLSGVSITSELNEELNDLIQRFHNQLRDSQPPAVPDNRRQAESLSLT
REVQSQRKPSASERLPDEKVELFSKMRVLQEKKQKMDKLLGELHTLRDQHLNNSSSSPQRSVDQRSTSAPSACL
LAPVNGESNSLTSSVPYPTASLVSONESENHGLNPSEKLQKLNKVRKRLNELRELHVHYEQTSDMMTDAVNEN
RKDEETEESEYDSEHENSEPVTNIRNPQVASTWNEVNSHSAQCVSNNRDGRTVNSNCEINNRSAAANIRALNVPP
SLDCRYNREGEQEIHVAQGEDDEEEEEEAEEEGVSGASLSSHRSSLVDEHPEDAEEFQKINRLMAAKQKLRQLQD
LVAMVQDDAAQGVISASASNLDGFYPAEEDTKQNSNTRGNANKTQKDTGVNEKAREKFYEAKLQQQRELKQL
QEERKKLIDIHEKIQALQTACPDQLSAASVGNCPKTKYMPAVTSTPTVNQHETSTSKSVFEPEDSSIVDNELWS
EMRRHEMLREELRQRRKQLEALMAEHQRRQGLAETASPVAVSLRSDGSENLCPTQQRTEKTMATWGGSTQCALD
EEGDEDEGYLSEGIVRTDEEEEEEQDASSNDNFVCPNSNVNHSYNRKETKNTWKNNCPFSADENYRPLAKTRQQ
NISMQRQENLRWVSELSYVEEKEQWQEQIQLKKQLDFSVSICQTLMDQQTLSCLLQTLTLLTGYPVMPNSVASPQ
VHFIMHQLNQCYTQLTWQNNVQRLKQMLNELMRQRNQHPKPGGKERGSSASHPPSPSLFCPFSFPTQPVNLFN
IPGFTNFSSFAPGMNFSPLFSPNFGDFSQNIPTSEQQQPLARILSGKTEYMAFPKPFESSSSIGAEPKRNKKLP
EEEVESSRTPWLYEQEGEVEKPFIKTGFSVSVEKSTSSNRKNQLDTNGRRRQFDEESLESFSSMPDPVDPPTTVTK
TFKTRKASAQASLASKDKTPKSKSKRNSTQLKSRVKNIRYESASMSSTCEPCKSRNRHSAQTEEPLOAKVFSRK
NHEQLEKIIKCNRSTEISSETGSDFSMFEALQDTIYSEVATLISQNESRPHFLIELFHELQLLNTDYLQRALYA
LQDIVSRHISESHEKGENVKSNSGTWIASNSELTPSESLATTDDETFEKNFERETHKISEQNDADNASVLSVSS
NFEFFATDDLGNLTVIHLQALARMREYERMKTEAESNSNMRCRIIEDGDGAGAGTTVNNLEETPVNIENRSSQ
PVSEVSTIPCPRIDTQQLDRQIKAIMKEVIPFLKEHMDEVCSQLLTSVRRMVLTLTQQNDESKEFVKFFHKQLG
SILQDSLAKFAGRKLKDCGEDLVEISEVLFNELAFFKLMQDLNNSITVKQRCKRKIEATGVIQSCAKEAKRII
EDHGSPAGEIDDEDKDKDETETVKQTQTSEVYDGPKNVRSDISDQEEDEESEGCPVSINLSKAETQALTNYGSGE
DENEDEEMEEFEEGPDVQTSLOANTEATEENEHDEQVLQRDFKKTAESKNVHWNEKPLVKMTKNNCPVKPSYLN
ILEDEQPLNSAAHKESPTVDSTQQPNPLPLRLPEMEPLVPRVKEVKSQETPESSLAGSPDTEPVLVNDYEA
SGNISQKSDEEDFVKVEDLPLKLTIIYSEADLRKKMVEEEQKNHLSGEMCE

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FIGURE 861

GGCAGCTGCACGGCTCCTGGCCCCGGAGCATGCGCGAGAGCCGCCCGGAGCGCCCCGGAGCCCCCGCCGTCCC
GCCCCGCGCGTCCCGCGCCCCGCCGCCAGCGCACCCCCGGACGCTATGGCCACCCCTCCGGCTGGCCCCCTTCTG
TAGGATGGTAGCACACAACCAGGTGGCAGCCGACAATGCAGTCTCCACAGCAGCAGAGCCCCGACGGCGGCCAGA
ACCTTCCTCCTCTTCTCCTCCTCGCCCGCGCCCCCGCGCGCCCGCGGCCGTGCCCGCGGTCCCGGCCCGGC
CCCCGGCGACACGCACTTCCGCACATTCCGTTGCGACGCCGATTACCGGCGCATCACGCGGCCAGCGCGCTCCT
GGACGCCTGCGGATTCTACTGGGGGCCCTGAGCGTGCACGGGGCGCACGAGCGGTGCGCGCCGAGCCCGTGGG
CACCTTCCTGGTGCAGCAGCCGCCAGCGGAAGTGTCTTTTCGCCCTTAGCGTGAAGATGGCCTCGGGACCCAC
GAGCATCCGCGTGCACCTTCAGGCCGGCCGCTTTCACCTGGATGGCAGCCGCGAGAGCTTCGACTGCCTCTTCGA
GCTGCTGGAGCACTACGTGGCGGCGCCGCGCCGATGCTGGGGGCCCGCTGCGCCAGCGCCGCGTGGCGCCGCT
GCAGGAGCTGTGCCGCCAGCGCATCGTGGCCACCGTGGGCCGCGAGAACCTGGCTCGCATCCCCCTCAACCCCGT
CCTCCGCGACTACCTGAGCTCCTTCCCCTTCCAGATTGACCGGCAGCGCCCGCGTGCACGCAGCATTAACTGG
GATGCCGTGTTATTTTGTATTACTTGCTGGAACCATGTGGGTACCCTCCCCGGCCTGGGTGGAGGGAGCGGA
TGGGTGTAGGGGCGAGGCGCCTCCCGCCCTCGGCTGGAGACGAGGCCGAGACCCCTTCTCACCTCTGAGGGG
TCCTCCCCCTCCTGGTGCTCCCTCTGGGTCCCCCTGGTTGTTGTAGCAGCTTAACTGTATCTGGAGCCAGGACCT
GAACTCGCACCTCCTACCTCTTCATGTTTACATATACCCAGTATCTTGCACAAACCAGGGGTTGGGGGAGGGTC
TCTGGCTTTATTTTCTGCTGTGCAGAACTCTATTTTATATTTTAAAGTCAGTTAGGTAATAAACTTTATTA
TGAAAGTTTTTTTTTT

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FIGURE 862

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTFRSHADYRRITRASALLD
ACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFVALSVKMASGPTSIRVHFQAGRFHLDGSRESFDCLFEL
LEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVATVGRENLARIPLNPVLRDYLSSFPFQI

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FIGURE 863

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCGAGATAC
GGGGTTGCTCTTTTGTCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCCTTAATTA
AGATCCTCAATTGGCTGGAGGGCAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCAAGGGCGTTTCGTAAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCAGCCCTGTATGAGGACCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCT
GCTCTTGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAAATGTTAGAGAACAACTACCAGCTGAACCTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCGCGCCAGTGCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCTATGCCTACA
CCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTGTGTGCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCTATCACCTAT
ACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCACTACCATTCTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTCTCATGTATAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTAAGCCCAAGATTTTTTATTGAGGGTTTTTGTTTTTTAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTGAATTATCCACATGAAAATAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 864

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFCELLQAVPLADSFRLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 865

GGCGCCGCCGCAAACGTCAGTGTACGAGGCAGACGGCGGCAGTGCGGGCTTGCTCTTGGAAGTTCAGGCTCGGTTG
TCTTTTGGGAGCCATGGAGAGTGACTTTTATCTGCGTTACTACGTGGGGCACAAGGGCAAGTTCGGCCACGAGTT
CCTGGAGTTTGAGTTTCGACCGGACGGGAAGTTAAGATATGCCAACACAGCAATTACAAGAATGATGTCATGAT
CAGAAAAGAGGCTTATGTACATAAAAGCGTGATGGAGGAACTGAAGAGAATAATTGACGACAGTGAAATTACCAA
AGAGGATGATGCATTGTGGCCTCCTCCTGACCGAGTGGGCCGGCAGGAGCTTGAAATCGTCATTGGAGATGAACA
CATTTCCTTTTACAACATCAAAAATTGGTTCCTTATTGATGTCAATCAATCCAAGGATCCAGAAGGCTTACGAGT
ATTTTATTATCTTGTCCAGGACCTGAAGTGTTTGGTCTTCAGTCTTATTGGATTACACTTCAAGATTAAACCAAT
CTAGACTGAATATTGGTGTGGACATGGGGGTGGGTGGGAGTAGAAAATTTTGTGTATATCAGGGCAGTATTTTT
TTATGAACTATAAATGATTGTCTTTAATAAATATGTGATAAAATCCAATTTTATTATTTTATAAAGACCTGAAC
ATGTGAAAAAAAAAAAAAAAAAA

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FIGURE 866

MESDFYLRYVVGHKGKFGHEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKEDDA
LWPPPDVRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

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FIGURE 867

CATTTTCATTGGCGTTTGTAGTCAGCAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAAC
TGTTACAGTGAAGATGAAGAAGACAGTTCCCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTA
AGCTATGGCCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCC
AAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTA
AGCCAATCCATCACTGATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCA
GCACCTTTTGTAGCTTCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAATGAC
GCCCTCAATCAAAGTATAATTGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCA
GTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAA
ACTCAATTGTATGTGACTGCCCAAGATGAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACC
ATCACAGGTAGTGAGACCAACCTCCTCTTCTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTTGCC
CATCCAAACTTGTATTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGGCCACCTCTATCACTGAC
TTTCAGATACTGGAAAACCAGGCGTAGCTCTGGAGTCTCACTTGTCTCACTTGTGCAGTGTGACAGTTTCATATG
TACCATGTACATGAAGAAGCTAAATCCTTTACTGTTAGTCAATTGCTGAGCATGTACTGACCCTTGTAATTTCTAA
ATGAATGTTTACACTCTTTGTAAGAGTGGAACCAACACTAACATATAATGTTGTTATTTAAAGAACACCCTATAT
TTTGCATAGTACCAATCATTTTAATTATTATTCTTCATAACAAATTTAGGAGGACCAGAGCTACTGACTATGGCT
ACCAAAAAGACTCTACCCATATTACAGATGGGCAAATTAAGGCATAAGAAAATAAGAAATATGCACAATAGCAG
TTGAAACAAGAAGCCACAGACCTAGGATTTTCATGATTTCACTTCACTGTTTGCCTTCTACTTTTAAGTTGCTGA
TGAATCTTAATCAAATAGCATAAGTTTCTGGGACCTCAGTTTATCATTTTTCAAATGGAGGGAATAATACCTA
AGCCTTCCTGCCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTGGTAAAATACTTCTTGAAGCCGAGCCT
CAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTATTATATATGTATTATAAATATATTTAAGATA
ATTATAATATACTATATTTATGGGAACCCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAG
TGTTTTCTGGGATAAGTAAGTTTGATTTTCAATTAATACAGGGCATTTTGGTCCAAGTTGTGCTTATCCCATAGCCA
GGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTAAATTACCTTGAAGCCAGTAA
TTGGTCCGATCTTTGACTCTTTTGCCATTAACTTTACCTGGGCATTCTTGTTCATTCAATTCCACCTGCAATCA
AGTCCTACAAGCTAAAATTAGATGAACTCAACTTTGACAACCATGAGACCACCTGTTATCAAAGTTGAGTTTCATCT
AATTTTAGCTTGTAGAGACGGGATTTACCATCTTTGGCCGTGCTGGTCTCGAACTTCTGACCTCGTGATCCACCC
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCGCCCGGCCTGGAGTTTCTACTGTGCACCAG
GCACTACCTTTACATGTATTGTTTTATTTAATCCTCAGTCAGCCGTGTTTGGTAGGTGCAGTTAGTATATTTCCA
TTTTCATCTGCGCAAAACAGATTTCAGGAACCTTTGTAATTTACATAAGGTCACATTCATCCTAATTCACAAAATCAA
GATTTTCACACCTATTCTTTTTCTTTCCAGTGCCTGTGCTTTTTCTCTCATACCAAGGAGAAGTAATAAGCCTAA
CGTTTTAAACCTCACAAAAGTACATACAGAAAAGTAAATAGCCTAATTTTGCAACTAATACAAATGGCGCTGTAC
TTCTTTGGTGATGGTAGATTTATAATTTTTGAAGTATGGTAGATTCAAATGAACCACTGAAAAGGCATTTAGTTT
CTTGTCCTCAAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 868

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVLSISETSKTSKLTFKESMVVVA
TNGKVLKKRRLSLSQSITDDDLEAIANDSEEEIIPRSAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQ
YLTAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKTLQLYVTAQDEDQPVLLKEMPEIPKTIITGSETNLLFFW
ETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILENQA

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FIGURE 869

AGCAGCTCCAACCAGGGCAGCCTTCCTGAGAAGATGCAACCAATCCTGCTTCTGCTGGCCTTCCTCCTGCTGCCC
AGGGCAGATGCAGGGGAGATCATCGGGGGACATGAGGCCAAGCCCCACTCCGCCCCCTACATGGCTTATCTTATG
ATCTGGGATCAGAAGTCTCTGAAGAGGTGCGGTGGCTTCCTGATACAAGACGACTTCGTGCTGACAGCTGCTCAC
TGTGTTGGGAAGCTCCATAAATGTCACCTTGGGGGGCCACAATATCAAAGAACAGGAGCCGACCCAGCAGTTTATC
CCTGTGAAAAGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCATGCTACTGCAGCTG
GAGAGAAAGGCCAAGCGGACCAGAGCTGTGCAGCCCCCTCAGGCTACCTAGCAACAAGGCCCAGGTGAAGCCAGGG
CAGACATGCAGTGTGGCCGGCTGGGGGCAGACGGCCCCCTGGGAAAACACTCACACACACTACAAGAGGTGAAG
ATGACAGTGCAGGAAGATCGAAAGTGCGAATCTGACTTACGCCATTATTACGACAGTACCATTGAGTTGTGCGTG
GGGGACCCAGAGATTAAAAAGACTTCCTTTAAGGGGGACTCTGGAGGCCCTCTTGTGTGTAACAAGGTGGCCCAG
GGCATTGTCTCCTATGGACGAAACAATGGCATGCCTCCACGAGCCTGCACCAAAGTCTCAAGCTTTGTACACTGG
ATAAAGAAAACCATGAAACGCTACTAACTACAGGAAGCAAATAAGCCCCGCTGTAATGAAACACCTTCTCTGG
AGCCAAGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTCCAGTGTAAATCTGGAGCCA
AGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTTAGCTGAGTGG

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FIGURE 870

MQPILLLLLAFLLLPRADAGEIIGGHEAKPHSRPYMAYLMIWDQSLKRCGGFLIQDDFVLTAHCGSSINVTLG
AHNIKEQEPTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKRTRAVQPLRLPSNKAQVKPGQTCVAGWGQT
APLGKHSHTLQEVKMTVQEDRKCESDLRHYYDSTIELCVGDPEIKKTSFKGDSGGPLVCNKVAQGIVSYGRNNGM
PPRACTKVSSFVHWIKKIMKRY

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FIGURE 871

ACAGACTGCCAAATGGAACAGACAAGCAGGTTGTCTTGTGTTAAAGAAAATGAGATATGAGTCAGTTACTCCCGG
AGGCAATGCTGCTGTTTCTAGCTCTTGTGTTTTTGTGGCCAGGGTCTTCATGAACACTAATAGGGGTACCAGGCCCT
CTTCCTTGTTAGAAAGAAATCAGGATAACAAAGGTATATTGGGCACCCCTACAAAAGGAATCTGTATCTGTATCAA
GATGATCTGAAGAACAGCTTCTACCTTTAGGAATGTCTAGTGTTCAAAATGACTAGCATCTTCCATTTTGGCCAT
TATCTTCATGTTAATACTTCAGATCAGAATACAATTATCTGAAGAAAGTGAATTTTTAGTTGATAGGTCAAAAAA
CGGTCTCATCCACGTTCCATAAGACCTATCCAGAAAACAACAATCTTAAATATATCGCAAAATTATATATCTGA
GCTTTGGACTTCTGACATCTTATCACTGTCAAACTGAGGATTTTGATAATTTCTCATAATAGAATCCAGTATCT
TGATATCAGTGTTTTCAAATTCAACCAGGAATTGGAATACTTGGATTTGTCCACAACAAGTTGGTGAAGATTTT
TTGCCACCTTACTGTGAACCTCAAGCAGCTTGGACCTGTCAATTAATGCATTGATGCCCTGCCATATGCAAGA
GTTTGGCAATATGTCTCAACTAAAATTTCTGGGGTTGAGCACCACACACTTAGAAAAATCTAGTGTGCTGCCAAT
TGCTCATTGAAATATCAGCAAGGTCTTGCTGGTCTTAGGAGAGACTTATGGGGAAGAAAGACCCCTGAGGGCCT
TCAAGACTTTAACAAGTCTGACATTTGTGTTCCCCACAACAAGAAATCCATTTTATTTTGGATGTGTC
AGTCAAGACTGTAGCAATCTGGAATATCTAATATCAAATGTGTGCTAGAAGATAACAAATGTTCTTACTTCTCT
AAGTATTCTGGCGAAACTTCAAACAAATCCAAAGTTATCAAGTCTTACCTTAAACAACATTGAAACAACCTGGAA
TTCTTTTATTAGGATCCTCCAGCTGGTTTGGCATACAAGTGTATGGTATTTCTCAATTTCAAACGTGAAGCTACA
GGGTGAGCTGGACTTCAGAGATTTTGATTATCTGGCACTTCTTGAAGGCCTTGTCTATACACCAAGTTGTCAG
CGATGTGTTCCGTTTTCCGCAAAGTTATATCTATGAAATCTTTTGAATATGAACATCAAAAATTTTACAGTGT
TGGTACACGCATGGTCCACATGCTTTGCCCATCCAAATTAGCCCGTTCTGCAATTTGGATTTTCCAATAATCT
CTTAACAGACACGGTTTTTGAATTTGTGGGCACCTTACTGAGTTGGAGACACTATTTTACAAATGAATCAATT
AAAAGAATTTCAAATAAGCTGAAATGACTACACAGATGAAGTCTCTGCAACAATTGGATATTAGCCAGAATTC
TGTAAGCTATGATGAAAAGAAAGGAGACTGTTCTGGACTAAAAGTTTATTAAGTTTAAATATGTCTTCAAATAT
ACTTACTGACACTATTTTCTAGATGTTTACCTCCAGGATCAAGGTACTTGATCTTACAGCAATAAAATAAGAG
CATTCTTAAACAAGTCGTAAGCTGGAAGCTTTGCAAGAACTCAATGTTGCTTTCAATTTCTTAACTGACCTTCC
TGGATGTGGCAGCTTTAGCAGCTTTCTGTATTGATCATTGATCACAATTCAGTTTCCACCCATCAGCTGATTT
CTTCCAGAGCTGCCAGAAGATGAGGTCAATAAAAGCAGGGGACAATCCATTCCAATGTACCTGTGAGCTAGGAGA
ATTTGTCAAAAATATAGACCAAGTATCAAGTGAAGTGTAGAGGGCTGGCCTGATTCTTATAAGTGTGACTACCC
GGAAAGTTTATAGAGGAACCTACTAAAGGACTTTCACATGTCTGAATTATCCTGCAACATAACTCTGCTGATCGT
CACCATCGTTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCATCTACTTGGATCTGCCCTGGTA
TCTCAGGATGGTGTGCCAGTGGACCCAGACCCGCGCAGGGCCAGGAACATACCCCTAGAAGAACTCCAAAGAAA
TCTCCAGTTTTCATGCAATTTATTTTATATAGTGGGCACGATTCTTCTGGGTGAAGAATGAATTATTGCCAAACCT
AGAGAAAGAAGGTATGCAGATTTGCCTTCATGAGAGAACTTTGTTTCTGGCAAGAGCATTGTGGAAAATATCAT
CACCTGCATTGAGAAGAGTTACAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAGTGAATGGTGCCATTA
TGAATCTACTTTGCCCATCACAATCTCTTTTATGAAGGATCTAATAGCTTAACTCTGATCTTGTGGAACCCAT
TCCGCAGTACTCCATTCCTAGCAGTTATCACAAGCTCAAAAGTCTCATGGCCAGGAGGACTTATTGGAATGGCC
CAAGGAAAAGAGCAAACGTGGCCTTTTTTGGGCTAACTTAAGGGCAGCCATTAAATTAAGCTGACAGAGCAAGC
AAAGAAATAGATTACACATCAAGTGAATAATTTCTCTGTTGATATTGCTGCTTTTGGAAAGTTCCAACAATGA
CTTTATTTTGCATCAGCATAGATGTAAACACAATTTGTGAGTGTATGATGTAGGTAAAAATATATACCTTCGGGT
GCAGTTCACCATTTATATGTGGTATTAAAAATTAATGAAATGATATAACTTTGATTT

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FIGURE 872

MTSIFHFAIIFMLILQIRIQLSESEFLVDRSKNGLIHVPKDL SQKTTILNISQNYISELWTS DILSLSKLRILI
ISHNRIQYLDISVFKFNQELEYLDLSHNKLVKISCHPTVNLKHLDSL FNAFDALPICKEFGNMSQLKFLGLSTTH
LEKSSVLPPIAHLNISKVLLVLGETYGEKEDPEGLQDFNTESLHIVFPTNKEFHFI LDVSVKTVANLELSNICKVL
EDNKCSYFLSILAKLQTNPKLSSLTLNNIETTWN SFIRILQLVWHHTTVWYF SISNVKLQGQLDFRDFDYSGTSLK
ALSIHQVSDVFGFPQSYIYEI FSNMNIKNFTVSGTRMVHMLCPSKISPFLHLD FSNLLTDTVFENC GHLTELE
TLILQMNQLKELSKIAEMTTQMKS LQQLDISQNSVSYDEKKGDCSWTKSLLSLNMSSNILTDTIFRCLPPRIKVL
DLHSNKIKSIPKQVVKLEALQELNVAFNSLTDLPGCSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNP
FQCTCELGEFVKNIDQVSSEVLEGWPD SYKCDYPESYRGTL LKDFHMS ELSCNITLLIVTIVATMLVLAVTVTSL
CIYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSGHDSFWVKNELLPNLEKEGMQICLHERNFVP
GKSIVENIITCIEKSYKSIFVLSPNFVQSEWCHYELYFAHNNLFHEGSNSLILILLEPI PQYSIPSSYHKLKSLM
ARRTYLEWPKEKSKRGLFWANLRAAINIKLTEQAKK

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FIGURE 873

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCGCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTACGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGTGAAGACGCTTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGAGGAATGTGTACAGTTCTTACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATAGAAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTTCAAGATC
TAAATCCAATTCAGATCACGGTCCAAGTCCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGC
ATCTCACACCAAACTAGAGGCACCTCTAAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATATGAAAA
GGATCAAGGAAAAAAGAACCACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
ATCAAGGTCTTGGACTAGTCTTAAGTCCAGTGGCCACT**TCAT**AGTATAAACCATGGTCATTTTTTAGGCATGTATCA
TTCAATTTACTCATAGTTTGGTTTACTTAAATTATCAGGAATACAATGTTGCAATGATGCTTAAAAAACACTTGTT
AGTTTTCCCTGTACCAGGCAATGGTTATAATTAATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GTTTTAATGTTATGGGCAGCTACCAATTTGTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTTATGCTTG
AAGTATTTGGTGAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAAAAATAAACTTTTCATATTCAT
ATTTGGTAGAACTGTTAACTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTCAGGGTGGACCTTTATGCTTTGCAAGATGTCTAGGCCCCG
CTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCCGGCGGATCACGAGGTCAAGGATT
CGAGACCAGCCTGACCAACACGGTGAACCCCGTCTCTACTAAAAATACAAAATATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCTGGGAGGTAGAAGTGCAGTGAG
CCAAAATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTATTTTTGATGCAGTGTGGATTAGTTCTTTTGTAAACCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTTACTGAAACATGGAGCCTTCACTGCTTTTTTTCTGGTTCTATGAAGATTTG
GAACATAGAAAACACAAAACTCACCTTAAATTTGAGCAGGTCGTTGATGGCAAAAATAATTTTAAGGAAAAAG
GAATATTTCTATGTAGTTATCTAAAGTTAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTTCAAAGTAGGTTTTGTGTGTGTGTGCCTAGTGTAAGAAGACTGAAATTTTGATGCTT
ACAGCACTTGGCTCGTGCATTTGTATCAAATTTGCCTGCCTCTTTATGAGGGAGGCCTGCTTTTCACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTCTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGAAAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTTGAGCTTTTCGATTATCAGTGTAGTACCTGA
CTAAAAATGAAGTAATACCCTTAAACCATTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTGACATGTCCAATTTCAATTCAGAATAAAAAGCTAGCATCTTTAAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCTTTTAGAGGATTACTTTTTCAATTTTCGGTTTTAGTAATCTAGGC
TTTGCCTGTAAAGAATACAACGATGGATTTAAATACTGTTTGTGGAATGTGTTAAAGGATTGATTCTAGAACC
TTTGTATATTTGATAGTATTTCTAACTTTCAATTTCTTTACTGTTTGCAGTTAATGTTTCATGTTCTGCTATGCAAT
CGTTTATAIGCACGTTTCTTTAATTTTTTTAGATTTTCTGGATGTATAGTTTAAACAACAAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTTATAGA
GGCTTCTAAAAAGGTATTTTTATATGTTCTTTTTAACAAATATTGTGTACAACCTTTAAACATCAATGTTTGA
TCAAAACAAGACCCAGCTTATTTCTGCTTGCTGTAAATTAAGCAAACATGCTATAATAAAAAACAAATGAAGG

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FIGURE 874

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDKRW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSRYDDYDRYRRSRRSYERRRSRSDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRFKHRNRSFSRSKSNRSRKSQPKKEMKAKSRRSASHTKTRGTSKTDKTHYKSGSRYEK
ESRKKEPPRSKSQSRSQSRSRKSRSRSWTSPKSSGH

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FIGURE 875

CAGTCCCCAAACCTAGAAATAAACTATTGGTATATTCTGGTGAATTCCTGTTTCCCTTTCTGTCTTTTTCTATT
CATTTTTGTTATCTTTTTTTTTAAAAAAGGTAACCTAAATGGACTCGTACAGCTTATATGCTTGTACGTTCTGAT
GTCCCCCATGTCCTCAGAAATCTTGTTATAGCTGCCGTGTTCTACTTTTGTGGATGCACTATAATTTACTTAAC
TCTCATCTTGATGGATTTTAAGGATGTTTCCAATTTTTTCATACTAGTAAAAATACTCTGCTAAAGATATGAAGC
CTGGAATTGGCAGAGATATTTTAAGACTCTAGATACATACTGGCAAAATGTTTTCCAGAAACGTTTGTATTCAAC
TACTATTGCAGATGAGAATACCTGTCTTTCACCTCAGTTATAATTCTGATATTATAACGCTAAATCTCTGCAAA
TTTGATGGGTGAAAAAGCATCTTATTGTAATTGTAATTTTTGTGTTAGTAAGGTGGAATGTTCTTTTTTATATTT
TTTGACTGGTTCATATTTTAAGGAACGTGATAAAGAAGTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGA
AGAAGAAAAAGAAAAAGAGAGAAAGAGTCGGAAGACAAACCTGAAATGAAGATGTTGGTTCTGATGAGGAAGA
AGAAAAGAAAGGATGGTGACAAGAAGAAGAAGAAGATTAAGGAAAAGTACATCGATCAAGAAGAGCTCAACAA
AACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACTAATGAGGAGTACGGAGAATTTCTATAAGAGCTTGAC
CAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATT
TGTCCACGACGTGCTCCTTTTGATCTGTTTGAAACAGAAAGAAAAAGAACATATCAAATTGTATGTACGCAG
AGTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCGGA
GGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGT
CAAAAATGCTTAGAACTCTTACTGAACTGGCGGAAGATAAAGAGAACTACAAGAAATTTCTATGAGCAGTTCTC
TAAAAACATAAGCTTGGAAATACACGAAGACTCTCAAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACAC
ATCTGCCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAGAACCAGAAACATATCTA
TTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTTGTGGAACGTCTTCGGAACATGGCTTAGA
AGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTCCAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGT
GTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAGAGAAAAAGCAGGAAGAGAAAAAACAA
GTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATT
GGTGACATCTCCATGCTGTATTGTCACAAGCACATATGGCTGGACAGCAAACATGGAGAGAATCATGAAAGCTCA
AGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCAAAGAAACACCTGGAGATAAACCTGACCATTCCAT
TATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAACGACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTA
TGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGATCTACAGGATGAT
CAAACCTGGTCTGGGTATTGATGAAGATGACCCTACTGCTGATGATAACAGTGTGCTGTAACGAAATGCC
ACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAAGTAGACTAATCTCTGGCTGAGGGATGACTTACCTG
TTCAGTACTCTACAATTCCTCTGATAATATATTTTCAAGGATGTTTTTCTTTATTTTTGTTAATATTAAGGTC
TGTATGGCATGACAACCTACTTTAAGGGGAAGATAAGATTTCTGTCTACTAAGTGATGCTGTGATACCTTAGGCAC
TAAAGCAGAGCTAGTAATGCTTTTTGAGTTTCATGTTGGTTTTATTTTACAGATTGGGGTAACGTGCACTGTAAG
ACGTATGTAACATGATGTTAACTTTGTGTGGTCTAAAGTGTTTAGCTGTCAAGCCGGATGCCTAAGTAGACCAAA
TCTTGTTATTGAAGTGTCTGAGCTGTATCTTGATGTTTAGAAAAATTTGTTTACATCTTGTAGGATCTACTTT
TTGAACTTTTCATTCCCTGTAGTTGACAATTCGCATGTACTAGTCCTCTAGAAATAGGTTAACTGAAGCAACT
TGATGGAAGGATCTCTCCACAGGGCTGTTTTCCAAAGAAAAGTATTGTTTGGAGGAGCAAAGTTAAAGCCTAC
CTAAGCATATCGTAAAGCTGTTCAAAAATAACTCAGACCCAGTCTGTGGATGGAAATGTAGTGCTCGAGTCACA
TTCTGCTTAAAGTTGTAACAAATACAGATGAGT

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FIGURE 876

MGEKASYCNCNFCVSKVECSFLYFLYWSYFKERDKEVSDDEAEKEDKEEKEKEEKESEDKPEIEDVGSDEEEE
KKDGDKKKKKKIKKEYIDQEELNKTPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFV
PRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIIRGVVDSDELPLNISREMLQQSKILKVIKKNLVK
KCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSCLKDYCTRMKENQKHIYY
ITGETKDQVANSASFVERLRKHGLEVIYMIPIDEYCVQQLKEFEGKTLVSVTKGLELPEDEEEKKKQEEKKTKF
ENLCKIMKDILEKKVEKVVSNNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSII
ETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGIDEDDPTADDTSAAVTEEMP
LEGDDDTSRMEEVD

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FIGURE 877

GCTGGAGGGATGTGGCTGCAGAGCCTGCTGCTCTTGGGCACTGTGGCCTGCAGCATCTCTGCACCCGCCCCGCTCGC
CCAGCCCCAGCACGCAGCCCTGGGAGCATGTGAATGCCATCCAGGAGGCCCGCGTCTCCTGAACCTGAGTAGAG
ACACTGCTGCTGAGATGAATGAAACAGTAGAAGTCATCTCAGAAATGTTTGACCTCCAGGAGCCGACCTGCCTAC
AGACCCGCCTGGAGCTGTACAAGCAGGGCCTGCGGGGCAGCCTCACCAAGCTCAAGGGCCCTTGACCATGATGG
CCAGCCACTACAAGCAGCACTGCCCTCCAACCCCGGAAACTTCCTGTGCAACCCAGACTATCACCTTTGAAAGTT
TCAAAGAGAACCTGAAGGACTTTCTGCTTGTTCATCCCTTTGACTGCTGGGAGCCAGTCCAGGAGTGAGACCCGGC
CAGATGAGGCTGGCCAAGCCGGGAGCTGCTCTCATGAAACAAGAGCTAGAAACTCAGGATGGTCATCTTGGA
GGGACCAAGGGGTGGGCCACAGCCATGGTGGGAGTGGCCTGGACCTGCCCTGGGCCACACTGACCCTGATACAGG
CATGGCAGAAGAATGGGAATATTTTATACTGACAGAAATCAGTAATATTTATATATTTATATTTTAAAAATATTT
ATTTATTTATTTATTTAAGTTCATATTCATATTTATTCAAGATGTTTTACCGTAATAATTATTATTTAAAAATAT
GCTTCT

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FIGURE 878

MWLQSLILLGTVACSSAPARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTR
LELYKQGLRGSLTKLKGPLTMMASHYKQHCPPTPETSCATQTITFESFKENLKDFLLVIPFDCWEPVQE

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FIGURE 879

AGGGGACAAGTCTAGGAGGTCTCTGAGGTTACTGTACCCATCCCTCCTTCATCTCCCTCCAGCATTTGTTTCTGG
AAGGAGTCAACACCAACAGCTCTGACCTGGGCAGCCTTCCTGAGAAAATCAGCCATTCTCTCCTGTTGGCCT
TTCTTCTGACCCCTGGGGCTGGGACAGAGGAGATCATCGGGGGCCATGAGGCCAAGCCCCACTCCCGCCCCTACA
TGGCCTTTGTTTCAGTTTCTGCAAGAGAAGAGTCGGAAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGC
TGACAGCTGCTCACTGCCAGGGAAGCTCCATAAATGTCACCTTGGGGGCCACAAATATCAAGGAACAGGAGCGGA
CCCAGCAGTTTATCCCTGTGAAAAGACCCATCCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCA
TGCTACTGCAGCTGGAGAGAAAGGCCAAGTGGACCACAGCTGTGCGGCCTCTCAGGCTACCTAGCAGCAAGGCCC
AGGTGAAGCCAGGGCAGCTGTGCAGTGTGGCTGGCTGGGGTTATGTCTCAATGAGCACTTTAGCAACCACACTGC
AGGAAGTGTGCTGACAGTGCAGAAGGACTGCCAGTGTGAACGTCTCTTCCATGGCAATTACAGCAGAGCCACTG
AGATTTGTGTGGGGATCCAAAGAAGACACAGACCGTTTCAAGGGGGACTCCGGGGGGCCCTCGTGTGTAAGG
ACGTAGCCCAAGGTATTCTCTCTATGGAAACAAAAAGGGACACCTCCAGGAGTCTACATCAAGGTCTCACACT
TCCTGCCCTGGATAAAGAGAACAATGAAGCGCCTCTAACAGCAGGCATGAGACTAACCTTCCTCTGGGCCTGACC
ATCTCTGGGACAGAGGCAAGAATCCCAAGGGGTGGGCAGTCGGGGTTCAGGACTGTAATAAATGGATCTCTGGT
GTAAATATGACTG

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FIGURE 880

MQPFLLLLAFLLTPGAGTEEIIGGHEAKPHSRPYMAFVQFLQEKSRRKRCGGILVRKDFVLTAHCQGSSINVTLG
AHNIKEQERTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKWTTAVRPLRLPSSKAQVKPGQLCSVAGWGYV
SMSTLATTLQEVLLTVQKDCQCERLFHGNYSRATEICVGDPKKTQTGFKGDSGGPLVCKDVAQGILSYGNKKGTP
PGVYIKVSHFLPWIKRTMKRL

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FIGURE 881A

CCCCGATTTTGC GGGGTTTCGT CGGGCCTGTGGAAGAAGCCCCGCCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAATCCTTTACAAGTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAGAACTTGGTCTCGTT
GGGGTCGACCTCACTCTGGATGGGGTCAAGTCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAATTTCTGATCGAGCCCTTCGCCCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCTGACGACAAGAAAGAAATTTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCTTGTAGTGACCAAGATGGAGTCTATGTCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCTTCGGGCGGGTGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCTCTGTCTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATATTGGAGGCAGCATCGCAAACCTTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCTGGGCACCGGCC
ATCCCCAACAGCCACCCACAGCGGCCCACTGCAAACCTTTCTCCTCAACGCCCAGCGGGAGACATCGACTCCA
GCCCCAGCAGGACAGCATCTTTTTATGAGTCCATGGTTCGATGAGGTGAGGGCCGATGAGGTGGCGCCTGCAAG
AAGGCCAAGCCTGCCATGCCACAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAGAGCACCACCTCTTC
AGCGGCCACACCAAGGCCATTGTGTGGGGCATGCAGACCCGGGCGGTGCAAGGCATGCTGGACTTTGACTATGTC
TGCTCCGAGACGAGCCCTCAGTGGCTGCCATGGTCTATCCTTTCACTGGGGACCACAAGCAGAAGTTTTACTGG
GGGCACAAAGAGATCCTGATCCCTGTCTTCAAGAATCGCTGATGCCATGAGGAAGCACC CGGAGGTAGATGTG
CTCATCAACTTTGCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACATGCCCAGATCCGGACC
ATCGCCATCATAGCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTG
ACCATCATCGGACCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACAGGTGGGATGCTG
GACAACATCTGGCCTCCAACTGTACCCCAAGCAGCTGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAAC
GAGCTCAACAATATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCG
GGCTCCACATTATGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAG
ATTGGGGGCACTGAGGAATATAAGATTTCCCGGGGCATCAAGGAGGGCCGCTCACTAAGCCCATCGTCTGCTGG
TGCATCGGGACGTGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCT
TCTGAAACTGCAGTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGCCCCGGAGCTTTGATGAGCTT
GGAGAGATCATCCAGTCTGTATACGAAGATCTCGTGGCCATGAGGATCATTGTACCTGCCAGGAGGTGCCGCC
CCAACCGTGCCCATGGACTACTCCTGGGCCAGGGAGCTTGGTTGATCCGCAAACCTGCCTCGTTCATGACCAGC
ATCTGCGATGAGCGAGGACAGGAGCTCATCTACGCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGC
ATTGGCGGGGCCCTCGGCCTCCTCTGGTTCCAGAAAAGTTGCCTAAGTACTCTTGCCAGTTTATTGAGATGTGT
CTGATGGTGACAGCTGATCACGGGCCAGCCGTCTCTGGAGCCCACAACACCATCATTGTGCGCGCACCCGGGTG
GAGCTGGTCTCCAGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGGATGCAGCAGCC
AAGATGTTTCAAGTAAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAG
CTGATCATGGGCATTGGTCAACGAGTGAAGTCGATAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTAC
GTCAGGCAGCACTTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAG
CCAAATCTTATCTGAATGTAGATGGTCTCATCGGAGTCGCATTGTAGACATGCTTAGAACTGTGGGTCTTTT
ACTCGGGAGGAAGCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGG
TTCATTGGACACTATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGATCGTCACTCCGTGGGATGATATTTTCATAT
GTTCTTCCGGAACACATGAGCATGTAAACAGAGCCAGGAACCTACTGCAGTAACTGAAGACAAGAAGCTCTTCCC
CCAAGAAAAAGTGTGACAGAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTG
GGGTACAGGCACCGAAGACCAACATCCACAGGCTAACACCCCTCAGTCCACACAAAGAAGCTTCATATTTTTTT

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FIGURE 881B

TATAAGCATAGAAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAG
CATCTAAGTACIGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAA
ACATTTTTTTCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATACATTTAAAGCACCCCAA
TGTCTCTCTTTTTTTTTTTTTTACTTCCCTTGCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGAT
TTTTAAAGACTTTTGTATGTTACGTGTTAAGGGCTTGTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCA
GAGTCTGTTTATGTCAGGGGGAGGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACCTA
ATATGTAAAGTTGTAACATACATACATTTAAATGGAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTT
TCTGTATTTATGCAGCTGATTTGTCTGTCTGTAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTG
TAATCCACAAAGATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTA
TATAGTAACAGGAATTCCTGCA

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FIGURE 882

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGVLGV D
LTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFAPHSQAEEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLN PEDIKKHL LVHAPDDKKEILASFISGLFN FYEDLYFTYLEINPLVVT KDGVYVLDLAAKV DATA
DYICKVKWGDIEFPPPFGRVAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LANYG EYSGAPSEQQTYDYAKTILSLMTREKHDPDGKILIIGGSIANFTNVAATFKGIVRAIRDYQG PLKEHEVTI
FVRRGGPNYQ EGLRVMGEVGKTTGIP IHVFGTETHMTAIVGMAWAPAIPNQPP TAAHTANFL LNAQRETSTPAPS
RTASFYESMVDEVRAD EVAPAKKAKPAMPQDSVPSRSLQ GKSTTLFSRHTKAIVWGMQTRAVQ GMLDFDYVCSR
DEPSVAAMVYPFTGDHKQKFYWG HKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTI AI
IAEGIPEALTRKLIK KADQKGVTTIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYPQA AVAYVSRSGGMSNELN
NII SRTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKISRGIKEGRLTKPIVCWCIG
TCATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTV
PMDYSWARELG LIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGALGLLWFQKRLPKYSCQFIEMCLMV
TADHGPAVSGAHNTI ICARTAVELVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKEGKLIM
GIGHRVKSINNPDMRVQILKDYVRQHFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVDMLRNCGSFTRE
EAD EYIDIGALNGIFVLGRSMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMSM

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FIGURE 883

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCCTGGAGCAGCCCCCTCTGGCCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCTTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTTTGGTTTCATGATCATTAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCTGGGCCCCGGGAGGCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGCAGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCACGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTTTT
CCAGCACGGAAGTTCGAGATAATTGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGCAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATAACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAGATGCTGGAACATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAACCTGCTGCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATGCTGAGTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAA
GCGTACCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCCGATTGGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTCATGATATTGTCTGGTTGGTGGTCTTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTCAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCACAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCACTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCTATCCAAGAATTCATTGAGTCTATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTTGAAGAGGTTGA
TAAGCCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTCGTAGCAAAT
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACAAGTATTGTAAGTGGAATGCAATGTCTTAAATAAAA
CTATTTAAATTTGGCACCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 884

MSKGAVIDLGTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNVTVPAYF
NDSQRQATKDAGTIAGLNLRIINEPTAAAIAYGLDKKVAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGD
THLGGEDFDNRMVNHFI AEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASTIEDSLYEGIDFYTSITRA
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAV
QAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSNQPGLIQVYEGERAMT
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNLSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
KADEKQQRDKVSSKNSLESYAFNMKATVEDEKLQKINDEDKQKILDKCNEIINWLDKNQTAEKEEFHQKKELE
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPSGGASSGPTIEEVD

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FIGURE 885

TGAAGATCAGCTATTAGAAGAGAAAGATCAGTTAAGTCCTTTGGACCTGATCAGCTTGATACAAGAACTACTGAT
TTCAACTTCTTTGGCTTAATTCTCTCGGAAACGATGAAATATACAAGTTATATCTTGGCTTTTCAGCTCTGCATC
GTTTTGGGTTCTCTTGGCTGTTACTGCCAGGACCCATATGTAAAAGAAGCAGAAAACCTTAAGAAATATTTTAAT
GCAGGTCATTAGATGTAGCGGATAATGGAACCTCTTTCTTAGGCATTTTGAAGAATTGAAAAGAGGAGAGTGAC
AGAAAAATAATGCAGAGCCAAATTGTCTCCTTTTACTTCAAACCTTTTAAAAACTTTTAAAGATGACCAGAGCATC
CAAAAGAGTGTGGAGACCATCAAGGAAGACATGAATGTCAAGTTTTTCAATAGCAACAAAAAGAAACGAGATGAC
TTCGAAAAGCTGACTAATTATTTCGGTAACTGACTTGAATGTCCAACGCAAAGCAATACATGAACCTCATCCAAGTG
ATGGCTGAACGTGCGCCAGCAGCTAAAACAGGGAAGCGAAAAAGGAGTCAGATGCTGTTCAAGGTCGAAGAGCA
TCCCAGTAAATGGTTGTCTGCCTGCAATATTTGAATTTTAAATCTAAATCTATTTATTAATATTTAACATTATTT
ATATGGGGAATATATTTTTAGACTCATCAATCAAATAAGTATTTATAATAGCAACTTTTGTGTAATGAAAATGAA
TATCTATTAATATATATGTATTATTTATAATTCCTATATCCTGTGACTGTCTCACTTAATCCTTTGTTTTCTGACTA
ATTAGGCAAGGCTATGTGATTACAAGGCTTTATCTCAGGGGCCAACTAGGCAGCCAACCTAAGCAAGATCCCATG
GGTTGTGTGTTTTATTTCACTTGATGATACAATGAACACTTATAAGTGAAGTGATACTATCCAGTTACTGCCGGTT
TGAAAATATGCCTGCAATCTGAGCCAGTGCTTTAATGGCATGTCAGACAGAAGCTTGAATGTGTCAGGTGACCCTG
ATGAAAACATAGCATCTCAGGAGATTTTCATGCCTGGTGCTTCCAAATATTGTTGACAAGTGTGACTGTACCCAAA
TGGAAGTAACCTATTTGTTAAAATTATCAATATCTAATATATATGAATAAAGTGTAAGTTCACAACT

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FIGURE 886

MKYTSYILAFQLCIVLGSGLGCYCQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSF
YFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAGTG
KRKRSQMLFQGRRASQ

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FIGURE 887

GGACTGTAACTGTTTCTGGCAAACATGAAGTCAGGCCCTCTGGTATTTCTTTCTCTTCTGCTTGCGCATTAAAGT
TTTAAACAGGAGAAATCAATGGTTCTGCCAATTATGAGATGTTTATATTTTACAACGGAGGTGTACAAATTTTATG
CAAATATCCTGACATTGTCCAGCAATTTAAATGCAGTTGCTGAAAGGGGGGCAAATACTCTGCGATCTCACTAA
GACAAAAGGAAGTGGAACACAGTGTCCATTAAAGAGTCTGAAATTCTGCCATTCTCAGTTATCCAACAACAGTGT
CTCTTTTTTTCTATACAACTTGGACCATTCTCATGCCAACTATTACTTCTGCAACCTATCAATTTTTGATCCTCC
TCCTTTTAAAGTAACCTTTACAGGAGGATATTTGCATATTTATGAATCACAACCTTTGTTGCCAGCTGAAGTTCTG
GTTACCCATAGGATGTGCAGCCTTTGTGTAGTCTGCATTTTGGGATGCATACTTATTTGTTGGCTTACAAAAA
GAAGTATTCATCCAGTGTGCACGACCCTAACGGTGAATACATGTTTCATGAGAGCAGTGAACACAGCCAAAAAATC
TAGACTCACAGATGTGACCCTATAATATGGAACCTCTGGCAGCCAGGCATGAAGCACGTTGGCCAGTTTTCTCTCA
CTTGAAAGTGCAAGATTCTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACTACATACATCTTCTGCTGGTGT
TTGTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGATTTTAAACAGACTGCCTTGGTACTGCCGAGTCTCT
CAAAACAAACACCCTCTTGCAACCAGCTTTGGAGAAAGCCAGCTCCTGTGTGCTCACTGGGAGTGAATCCCTG
TCTCCACATCTGCTCCTAGCAGTGCATCAGCCAGTAAACAAACACATTTACAAGAAAAATGTTTTAAAGATGCC
AGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCAAGGACCAGCATCTGTCCGCAATTTCACTATCATACTACCTC
TTCTTTCTGTAGGGATGAGAATTCCTCTTTAATCAGTCAAGGGAGATGCTTCAAAGCTGGAGCTATTTTATTTT
TGAGATGTTGATGTGAACGTACATTAGTACATACTCAGTACTCTCCTTCAATTGCTGAACCCAGTTGACCATT
TTACCAAGACTTTAGATGCTTTCTTGTGCCCTCAATTTTCTTTTAAAAATACTTCTACATGACTGCTTGACAGC
CCAACAGCCACTCTCAATAGAGAGCTATGTCTTACATTCTTCTCTGCTGCTCAATAGTTTATATATCTATGC
ATACATATATACACACATATGTATATAAAATTCATAATGAATATATTTGCCTATATTCTCCCTACAAGAATATTT
TTGCTCCAGAAAGACATGTCTTTTCTCAAATTCAGTTAAATGGTTTACTTTGTTCAAGTTAGTGGTAGGAAAC
ATTGCCCGGAATTGAAAGCAAATTTATTTTATATCCTATTTTCTACCATTATCTATGTTTTCATGGTGTCTATTA
ATTACAAGTTTAGTTCTTTTTGTAGATCATATTTAAATGCAAACAAATCATCTTTAATGGGCCAGCATTCTCA
TGGGGTAGAGCAGAATATTCATTTAGCCTGAAAGCTGCAGTTACTATAGGTTGCTGTGCACTATACCCATGGTG
CCTCTGGGCTTGACAGGTCAAATGGTCCCCATCAGCCTGGAGCAGCCCTCCAGACCTGGGTGGAATTCAGGGT
TGAGAGACTCCCCTGAGCCAGAGGCCACTAGGTATTCTTGCTCCAGAGGCTGAAGTCACCTGGGAATCACAGT
GGTCTACCTGCATTATAATTCCAGGATCTGTGAAGAGCACATATGTGTGAGGGCACAATTCCTCTCATAAAAA
CCACACAGCCTGGAAATTGGCCCTGGCCCTTCAAGATAGCCTTCTTTAGAATATGATTTGGCTAGAAAGATTCTT
AAATATGTGGAATATGATTATTCTTAGCTGGAATATTTTCTCTACTTCTGTCTGCATGCCCAAGGCTTCTGAAG
CAGCCAATGTGATGCAACAACATTTGTAACCTTAGGTAACTGGGATTATGTTGTAGTTTAAACATTTTGTAACT
GTGTGCTTATAGTTTACAAGTGAGACCCGATATGTCAATTATGCATACTTATATTATCTTAAGCATGTGTAATGCT
GGATGTGTACAGTACAGTACTTAACTTGTAAATTTGAATCTAGTATGGTGTCTGTTTTTCAGCTGACTTGGACAAC
CTGACTGGCTTTGCACAGGTGTTCCCTGAGTTGTTTGCAGGTTTCTGTGTGTGGGTGGGGTATGGGGAGGAGAA
CCTTCATGGTGGCCACCTGGCTGGTTGTCCAGCTGTGCCTCGACACATCCTCATCCCAAGCATGGGACACCT
CAAGATGAATAATAATTACAAAATTTCTGTGAAATCAAATCCAGTTTTAAGAGGAGCCACTTATCAAAGAGATT
TTAACAGTAGTAAGAAGGCAAAGAATAAACATTTGATATTACGCAACTGAAAAAAAAA

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FIGURE 888

MKSGWLWYFFLFCLRIKVLGTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILCDLTKTKGSGNTV
SIKSLKFCHSQLSNNSVSFFLYNLDHSHANYFFCNLSIFDPPPFKVTLTGGYLHIYESQLCCQLKFWLPIGCAAF
VVVCILGCILICWLTKKKYSSSVHDPNGEYMFMRVNTAKKSRLTDVTL

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FIGURE 889

GGCACGAGGGTCCGCAAGCCCGGCTGAGAGCGCGCCATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTGCTG
TTCGACTACAAGACCGAGAAGTATGTATCGCCAAGAACAAGAAGGTGGGCCTGCTGTACCGGCTGCTGCAGGCC
TCCATCCTGGCGTACCTGGTTCGTATGGGTGTTCTTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAG
AGTGTCTGTATCACCAAAGTCAAGGGCGTGGCCTTCACCAACACCTCGGATCTTGGGCAGCGGATCTGGGATGTC
GCCGACTACGTCAATTCAGCCCAGGGAGAGAAGCTCTTTTTTGTGGTCACCAACCTGATTGTGACCCCCAACCCAG
CGGCAGAACGTCTGTGCTGAGAATGAAGGCATTCTGATGGCGCGTGTCTCAAGGACAGCGACTGCCACGCTGGG
GAAGCGGTTACAGCTGGAACGGAGTGAAGACCGGCCGTGCTGCGGAGAGGGAAGTTGGCCAGGGGCACCTGT
GAGATCTTTGCCTGGTCCCCGTTGGAGACAAGCTCCAGGCCGAGGAGCCATTCTGAAGGAGGCCGAAGACTTC
ACCATTTTCATAAAGAACCACATCCGTTTCCCCAAATTCAACTTCTCCAAAAACAATGTGATGGACGTCAAGGAC
AGATCTTTCTGAAATCATGCCACTTTGGCCCCAAGAACCCTACTGCCCCATCTTCCGACTGGGCTCCATCGTC
CGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGCGAGGTGGCGTGATAGGAATTAATATTGAATGGAAGTGT
GATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCT
GTCTCCTCCGGGTACAACCTTCAGATTTGCCAGATATTACCGAGACGCGAGCCGGGGTGGAGTTCCGCACCCTGATG
AAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCAAGGGTGCTTTCTTCTGCGACCTGGTACTCATCTAC
CTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACGAGGAAGTGAGGGGCCTAGAAGACAGTTCCAGGAG
GCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGCTCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAG
CAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCCA
CAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCTCTGCTTACGTTTACGGCCCTGTCTAAACCCAGCCGTCT
AGCACCCAGTGATCCCATGCCCTTTGGGAATCCCAGGATGCTGCCCAACGGGAAATTTGTACATTGGGTGCTATCA
ATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGACCTCCACGTCTGATGCTGGGGTCATCAGGACGGAC
CCATCATGGCTGTCTTTTTGCCCCACCCCTGCCGTGAGTTCTTCTTTCTCCGTGGCTGGCTTCCCGCACTAGG
GAACGGGTTGTAAATGGGGAACATGACTTCCTTCCGGAGTCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTG
TAGAGTTCTAGATTACCTCACTGGGAATAGCATTGTGCGTGTCCGAAAAGGGCTCCATTTGGTTCCAGCCCAC
TCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTCTCCAGTGGATCCAAGTACTCTCTCTCTAAAGACA
CCACCTTCTGCCAGCTGTTTGCCCTTAGGCCAGTACACAGAATTAAAGTGGGGGAGATGGCAGACGCTTTCTGG
GACCTGCCCAAGATATGTATTCTCTGACACTCTTATTTGGTCATAAAACAATAAATGGTGTCAATTTCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

964/2682
FIGURE 890

MGQAGCKGLCLSLFDYKTEKYVIANKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLQSAVITKVKGVAF
TNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQRQNVCAENEGIPDGACSKDSDCHAGEAVTAGNGVKTG
RCLRRGNLARGTCEIFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNF SKNNVMDVKDRSFLKSCHFGPK
NHYCPIFRLGSIVRWAGSDFQDIALRGGVIGINIEWNCDLKAASECHPHYSFSRLDNKLSKSVSSGYNFRFARY
YRDAAGVEFRTLKAYGIRFDVMVNGKGAFCDLVLIYLIKREFYRDKKYEEVRGLEDSSQEADEASGLGLSE
QLTSGPGLLGMPEQQELQEPPEAKRGSSSQKNGSVCPQLLEPHRST

965/2682
FIGURE 891

AATTGGAGGAGTTGTTGTTAGGCCGTCCCGGAGACCCGGTCGGGAGGGAGGAAGGTGGCAAGATGCTGTTGGAAA
GCACTATGGTGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGC
AGGATGCTGTCAACATAGTTTTGTCATTCAAAGACCCGAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGG
CTAATGACTGTGAAGTGCTGACCACACTCACCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAAC
CCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATC
ACAAGATGCGCATCATTGCCTTTGTGGGAAGCCCAGTGGAGGACAATGAGAAGGATCTGGTGAACTGGCTAAAC
GCCTCAAGAAGGAGAAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAG
CCTTTGTAAACACGTTGAATGGCAAAGATGGAACCGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGG
CTGATGCTCTCATCAGTTCTCCGATTTTGGCTGGTGAAGGTGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTG
AATTGGAGTAGATCCCAGTGTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGC
GGCAGGAGGAGGAGGCCCGGGGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAG
ACTCAGACGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCTGACCTAAGCA
GTATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCAGGCGGAAT
CAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGC
AGGACCCCGAGTTTCCTTCAGAGTGTCCCTAGAGAACCTCCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATG
CTATGGGCTCCCTGGCCTCCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACT
GGAGGGAAAGGTAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTATC
TGTAACCATTACAGCCTAAATAAAGCTTGGCAACTTTT

966/2682
FIGURE 892

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVLITLANDCEVLTTLTPTDTGRILSKL
HTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDIINFGEEEVNT
EKLTAFVNTLNGKDG TGSHLVTVP GP SLADALISSPILAGEGGAMLGLGASDFEFGVDP SADPELALALRVSME
EQRQRQEEEEARRAAAAAEEAGIATTGTEDSDDALLKMTISQQEFGRITGLPDLSSMTEEEQIAYAMQMSLQGAEF
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNAMGSLASQATKDGGKDKKEED
KK

967/2682
FIGURE 893

AAGAGCTCCAGAGAGAAGTCGAGGAAGAGAGAGACGGGGTCAGAGAGAGCGCGGGGCGTGCGAGCAGCGAAAGC
GACAGGGGGCAAAGTGAGTGACCTGCTTTTGGGGGTGACCGCCGGAGCGCGGCGTGAGCCCTCCCCCTTGGGATCC
CGCAGCTGACCAGTCGCGCTGACGGACAGACAGACAGACACCGCCCCAGCCCCAGTTACCACCTCCTCCCCGGC
CGGCGGGGACAGTGGACGCGGCGGCGAGCCGCGGGCAGGGGCCGGAGCCCGCCCCGGAGGCGGGGTGGAGGGG
GTCGGAGCTCGCGGGCTCGCACTGAACTTTTCGTCCAACCTTCTGGGCTGTTCTCGCTTCGGAGGAGCCGTGGTC
CGCGCGGGGGAAGCCGAGCCGAGCGGAGCCGCGAGAAGTGCTAGCTCGGGCCGGAGGAGCCGAGCCGGAGGAG
GGGGAGGAGGAAGAAGAGAAGGAAGAGGAGGGGGCCGAGTGGCGACTCGGCGCTCGGAAGCCGGGCTCATGG
ACGGGTGAGGCGGCGGTGTGCGCAGACAGTGCTCCAGCGCGCGCTCCCCAGCCCTGGCCCGGCTCGGGCCGG
GAGGAAGAGTAGCTCGCCGAGGCGCCGAGGAGAGCGGGCCGCCACAGCCCGAGCCGGAGAGGGACGCGAGCCG
CGCGCCCCGGTCGGGCCCTCCGAAACCATGAACTTTTCTGCTGTCTTGGGTGCATTGGAGCCTTGCTTGTCTCT
ACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATCACGAAGTGGTGA
AGTTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTCCAGGAGTACCCTG
ATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCTGATGCGATGCGGGGGCTGCTCCAATGACGAGGGCC
TGGAGTGTGTGCCACTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTACCAAGGCCAGCACA
TAGGAGAGATGAGCTTCTACAGCACAAATGTGAATGCAGACCAAAGAAAGATAGAGCAAGACAAGAAAATC
CCTGTGGGCCTTGCTCAGAGCGGAGAAAGCATTGTGTTGTACAAGATCCGCAGACGTGTAAATGTTCTGCAAAA
ACACACACTCGCGTTGCAAGGCGAGGCGAGCTTGAGTTAAACGAACGTACTGCAGATGTGACAAGCCGAGGCGGT
GAGCGGGGCGAGGAGGAAGGAGCCTCCCTCAGGGTTTCGGGAACCAGATCTCTCTCCAGGAAAGACTGATACAGAA
CGATCGATACAGAAACCACGCTGCCGCCACCACACCATCACCATCGACAGAACAGTCCTTAATCCAGAAACCTGA
AATGAAGGAAGAGGAGACTCTGCGCAGAGCACTTTGGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGC
GGGTGACCCAGCACGGTCCCTCTTGAATTGGATTGCCATTTTATTTTTCTTGCTGTAAATCACCGAGCCCGG
AAGATTAGAGAGTTTTATTTCTGGGATTCTGTAGACACACCCACCCACATACATACATTTATATATATATATAT
TATATATATATAAAATAAATATCTCTATTTTATATATATAAAATATATATATTCTTTTTTAAATTAACAGTGC
TAATGTTATTGGTGTCTTCACTGGATGTATTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCCACTCAG
ATCCTGACAGGGAAGAGGAGGAGATGAGAGACTCTGGCATGATCTTTTTTTTGTCCCACTTGGTGGGGCCAGGGT
CCTCTCCCTGCCCAAGAATGTGAAGGCCAGGGCATGGGGCAAATATGACCCAGTTTTGGGAACACCGACAAA
CCCAGCCCTGGCGCTGAGCCTCTCTACCCAGGTGAGACGGACAGAAAGACAAATCACAGGTTCCGGGATGAGGA
CACCGGCTCTGACCAGGAGTTTGGGGAGCTTCAGGACATTGCTGTGCTTTGGGGATTCCCTCCACATGCTGCACG
CGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTGAGGAGCCTGGGCGGCCTTCGCTTACTCTCACCTGCTTCT
GAGTTGCCAGGAGGCCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGAAGCAGCCCATGAC
AGCGCCCCCTTCTGGGACTCGCCCTCATCTCTTCTGCTCCCTTCTGGGGTGACGCTAAAAGGACCTATGT
CCTCACACCATTTGAAACCACTAGTTCTGTCCCCCAGGAAACCTGGTTGTGTGTGTGTGAGTGGTTGACCTTCCT
CCATCCCCTGGTCTTCCCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGCCCATTTGTGGAGGC
AGAGAAAAGAGAAAAGTGTATATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATTAGAACAGTTAATT
TAATTAAAGAGTAGGGTTTTTTTTTTCAGTATTCTTGGTTAATATTTAATTTCACTATTTATGAGATGTATCTTT
GCTCTCTCTTGTCTCTTATTTGTACCGGTTTTTGTATATAAAATTCATGTTTCCAATCTCTCTCTCCCTGATCG
GTGACAGTCACTAGCTTATCTTGAACAGATATTTAATTTTGCTAACACTCAGCTCTGCCCTCCCCGATCCCTGG
CTCCCCAGCACACATTCTTTGAAAGAGGGTTTCAATATACATCTACATACTATATATATATTGGGCAACTTGTA
TTTGTGTGTATATATATATATATATGTTTTATGTATATATGTGATCCTGAAAAATAAACATCGCTATTCTGTTTT
TTATATGTTCAACCAAACAAGAAAAAATAGAGAATTCTACATACTAAATCTCTCTCTTTTTTAATTTTAATAT
TTGTTATCATTTATTTATTGGTGCTACTGTTTATCCGTAATAATGTGGGGAAAAGATATTACATCACGTCTTT
GTCTCTAGTGACGTTTTTCGAGATATTCGCTAGTACATATTTATTTTAAACAACGACAAAGAAATACAGATATA
TCTTAAAAA

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FIGURE 894

MNFI LSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDFQEYPDEIEYIFKP
SCVPLMRCGGCSNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERR
KHLFVQDPQTCKCSCKNTHSRCKARQLELNERTCRCDKPRR

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FIGURE 895

GTCTACACCAGCGGTGTCGCTGCCCCGAAAGTGAGAGAAGGCTGATATTGCTAGCTGGAATCCAGGCCTGGGTGCT
GCATGGTGGCGCCCCCTCCCCGTGACCACCGCTGCGTTTTCTCGGGCTTTCTCTGAGGAGCTGCTCTTGTGCTGTT
TGGCCCCCTGCCTACTCGGAATGGAACAAAGCATCGAACAACAAGTGAATCCTGTTGTGCCTATCACCTGTTGA
AGTTGCCAGTCTTAAGGAAGGAATCAATTTCTTTTCGCAATAAGAGCACTGGCAAAGACTACGTCTTGTACAAGAA
TAAGAGCCGACTGAGGGCATGCAAGAATATGTGCAAGCACCAAGGAGGCCTGTTTATAAAGATATCGAGGATTT
AGCCGGAAGTTGTTGAAATGGATGAAAACAACGGACTTTTGCTTTTAGAACTGAATCCTCCTAACCTTGGGACT
TACAGCCAGATCTCCTGAAGAGTTGGCTTTTGGAGAAGTACAGATAACATATCTCACTCATGCCTGCATGGACC
TCAAGTTAGGAGACAAGAGAATGGTGTGTTGACCTTGGTTAATCGGTCCTGCTTTTGCCCGTGGATGGTGGTTGC
TCCATGAGCCTCCATCTGATTGGCTGGAGAGGCTGTGCCAGGCAGACCTCATTACATCAGTCATCTGCACTCAG
ACCACCTGAGTTACCCACACTGAAAAAGCTTGCTGGGAGAAGACCAGATATTCCCATTATGTTGGAACACAG
AAAGGCCGTGATTTTTGGAATCTGAATCAGAGCGGTGTCCAGTTGACTAATATCAATGTCGTGCCATTTGGAATAT
GGCAGCAGGTGGACAAAAATCTTCGATTTCATGATCTTGATGGACGGTGTTCATCCTGAGATGGACACTTGCATTA
TTGTGGAGTACAAAGGTCATAAAATACTCAATATAGTAGACTGCACCAGACCCAATGGGGGAAGGCTGCCTATGA
AGGTTGCTCTAATGATGAGTGATTTTGTGAGGAGCATCAGGCTTTCCAATGACTTTTCAAGTGGTGGAAATTTA
CGGAGGAATGGAAGCCCAATTCATTAAAAACAGAAAGGAAGCTCCTGAACTACAAGGCTCGGCTGGTGAAGA
ACCTGCAACCCCGAATTTATTGTCCCTTTGCTGGGTATTTTGTGGAATCTCACCCATCAGACAAGTACATCAAGG
AAACAAACACCAAAATGACCCAAATGAATCAACAATCTTATCAAGAAAACTCTGATGTGATAACATGGACCC
CTCGACCGGGAGCCACCCTTGATCTGGGAAGAATGCTGAAGGATCGAACAGACAGCAAGGGCATCATAGAGCCTC
CAGAGGGGACAAAAATTTACAAGGATTCCTGGGATTTTGAACCTTATTGGAAATCTTGAATGCTGCTCTAGGAG
ATGAAATATTCTTCACTCATCCTGGATAAAAGAATACTTCACTTGGGCTGGATTTAAAGATTACAACCTTGTGG
TCAGGATGATTGAGACAGATGAGGACTTCAATCCTTTTCTGGAGGATATGACTATTTGGTTGACTTTTTAGATT
TATCCTTCCCAAAAGAAAGACCACAACGAGAACATCCCTATGAGGAAATCCATAGCCGGGTGGATGTCATCAGAC
ACGTGGTGAAGAATGGTCTACTCTGGGATGAGTTGTATATAGGATTCCAACACGGCTCCAGCGGGATCCTGACA
TATACCATCACCTGTTTTGGAATCATTTTCAAATAAACTCCCCCTCACACCACCAACTGGAAGTCATTCTGTA
TGTGCTGTGAGCAGAATGGGCCTGCGATTTTGAAGAATGCAAAACCACATGAAATTTTCAAGAATTCAGTGATC
TGATGCAAAATAAAAAATTTATCATTACATCTTGAACCCAGGAAGCTTACAGCAAAGAGACTATGCTTTATGACGT
CAGCAATAGATAATTCCACGTTGCCTTTGTGATTGTATATATAGCTTACATTTGTGGATCACTACATAGCCAGA
TTCAAAAATATTTTACTTGTTCATCCACAGTTCTCTACAGAAAGAACCAATGAACCCAATAGGAACAAATTCCTC
TGTGGAACAAAGCATAGCTGTAGTAGATACGAATCCAATCACAGAGGAAACAGGAAGAGAAAAACATCCAAGA
CTACAGTGAAAACCTGGAATGGTCTGTTTTCTGATATTCTGATGATTAAAGATGCAAAATTTTTCTTAGGAAAT
GTGATTGTTAACTAGCATTCTGTTTACATGTTGACATTTCTAACACACACACCACTGATTTGAACTTCAAAAT
TATTTCTGATTATATATGCTAGGTCTGATTCTGAAGATACAAGAATTCAATGGTGGAAATTTGTCTCCTGAAAT
TCTAGATTACATAATTAGAAGTGTATTATACCAACTTCTCACTTAGATTAAACATCAGTGATGTTTGATTATTCTGG
TTAACCGCTCACATGCATAACAATAATGCTAGAAATTCAGGAATTATAATTTTGTGATTATAGTGTGGTAA
TTATTCAGTTCTCACTGCAAAATAAATAATGTATATCAATGTAATGTAGGTGAGAATGTCTATGGTGAGCAAT
AAAAGATTATTTTAAATATGAAAAAAAAAAAAAAAAA

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FIGURE 896

MDENNGLLLLLELNPPNPWDLQPRSPEELAFGEVQITYLTHACMDLKLGDKRMVFDPWLIGPAFARGWLLHEPPS
DWLERLCQADLIYISHLHSDHLSYPTLKKLAGRRPDIPYVGNTERPVEFWNLNQSGVQLTNINVVPGIWWQQVVK
NLRFMILMDGVHPMDTCIIVEYKGHKILNIVDCTRPNGGRLPMKVALMMSDFAGGASGFPMTFSGGKFTEEWKA
QFIKTERKKLLNYKARLVKNLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNELNNLIKKNSDVITWTTPRGAT
LDLGRMLKDRTDSKGIIEPPEGTKIYKDSWDFEPLYEILNAALGDEIFLHSSWIKEYFTWAGFKDYNLVVRMIET
DEDFNPFPGGYDYLVDLFLDLSFPERPQREHPYEEIHSRVDVIRHVVKNGLLWDELYIGFQTRLQORDPDYHHLF
WNHFQIKLELTPPNWKSFLMCCEQNGPAILQECKTT

GCAGCGCCGCGACTCGTGCGGGTAGGCGTCTGCGCTCGGTTTGAGGGCTCGGCGCGGGGTTTCTGTCTCCTCT
CTGCGCGGCTGCAGCTCGGAGCTTCCGGCTTGACCCAGCCCCCATGGCTTCAGAAGAGCTACAGAAAGATCTAGAA
GAGGTAAAGGTGTGCTGTGGAAAAGGCTACTAGGAAAAGAGTACGTGATGCCCTTACAGCTGAAAAATCCAAGATT
GAGACAGAAATCAAGAACAAGATGCAACAGAAATCACAGAAGAAAGCAGAACCTCTTGATAATGAAAAACCAGCT
GCTGTGGTTGCTCCCATTAACAACGGGCTATACGGTGAAAAATCAGTAATTATGGATGGGATCAGTCAGATAAGTTT
GTGAAAACTACATTACCTTAACTGGAGTTCATCAAGTTCCTACTGAGAATGTGCAGGTGCATTTACACAGAGAG
TCAATTTGATCTTTTGGTAAAGAATCTAAATGGGAAGAGTTACTCCATGATTGTGAACAATCTCTTGAAACCCATC
TCTGTGGAAGGCAGTTCAAAAAAAGTCAAGACTGATACAGTTCTTATATTGTGTAGAAAGAAAGTGGAACACA
AGGTGGGATTACCTGACCCAGGTTGAAAAGGAGTGCAAAGAAAAAGAGAAGCCCTCCTATGACACTGAAACAGAT
CCTAGTGAGGGATTGATGAATGTTCTAAAGAAAATTTATGAAGATGGAGACGATGATATGAAGCGAACCATTAAT
AAAGCCTGGGTGGAATCAAGAGAGAAGCAAGCCAAAGGAGACACGGAATTTTGAGACTTTAAAGTCGTTTTGGGA
ACTGTGATGTGATGTGGAAATACTGATGTTTCCAGTAAGGGAATATTGGTGAGCTGCATATATAAATTTGACAGA
TAGCTATTTACATAGCCTTCTAAGTAAAGGCAATGAATCTCCATTTCTACTGGAGGATTTATTTAAATAAAAT
ATGCTTATTAACACTCCTGCAAAGATGGTTTTATTAGTACCCTGGTCATTTGTTCAGGAAGGGTTATATTGC
ATTCTCACGTGAAATATAAAAAGCAAGTCTTGCCCAATAAAAACGCTACATTGTGTGTATTTTTGTTCAGCTAA
GAATTGAAAAGTATTTGCTTGCCTTTTAAAGTTACTGACATCAGCTTCCACCAGTGTA AAAATTGAGTAAAACCT
GAAGTTTTGCATAAAATGCAAATCGGTGCCGTGTGCTTGAAGGTTGCTGTAGAGCATCTGACCCCTTATTACCAC
TTAAGCAATGTATATGCCATGCATTACCATGCACTAATTCAATCACAGGTGTTTCTATCTAGATTTAAATATATT
TGTCAAATGAATGTGGAATTAGAAAATCTAAACATGACAATAATAGACATATCTTGTATGGTACCAGTTAGTTTTG
CCGTGGATCAGATGGTTTATAAAAGTAATAACCATAAAGCAAAAAATAATTTGAAAGCCCGTCTATTCTATGCT
CAATAAAGTTAAGTTTTTCTTCATTAGAACAGTTTTATGATTTATTTGTCTAGGAGTATGTCAGAAAAATCAGGC
TTTTAGTAGGAATTACTCCTATTCCCCCTGAAGTCAGGACCAGTGCCGTGTGATCTCCATTACTTTATTTCTTG
AGGTATTAGCCAACACAGTTAGATCAGAGAAAAGCAATTGAAGCCAGGCATGAAGGCTGGCGCCCGTAATCCCAGC
TACTAAGGCTGGAGGATCACTTCAGCCCAGGAGTTTAAAGGCTGCAGTGAGCTATGATGATGCCATCTGATCAGC
CTTGGGTAACAGATTGAGAACCTGTCTCATTAAAAAAGGCGTTAGACACACAGGAAAAAT
CCAGAAGGGTAAACTAACTAAAGCTACAATTAATATGGGAATTTGGAAGAGTGGTAGGATTTAAATAACAGAA
ACAGTTTATGTATAGGATAGCTATAAGTAAATCTGAAACACATTAATGCCTCTGTAATTGGGGTTGACACATGAA
CAGAATAGCAGACACAATGCATATGAAGTTACAGAATATGTTAAAGTGGGGTAAAGATGGGTTTTTAATGATA
CTAAGATAAGTAAAAATAGGCATATAGATATATTCCAAGCCGCTGACGATCTAATTGTAAAAAGTAAAGCATA
AAATACTAGTAAGAAAAATGGAGGAAAACGACATTATATGTGACTTAAACCTAGAAGAAATAAATAAACTATTGA
TCAATTTTAACTACATAAAAAATGTTTTATAGGACAAGAAAAACCCACCATAACCCAAGGCAACAATGTATTGAC
AGGATTCCAATAATTAAGAATACTTCATACAAAAAGAAATGTAATGACCTTTAACATGTAAAGATGCTCACCTT
GTTCAGAAGAGAATAAACAGTGTTTTTACCTTTC

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FIGURE 898

MASEELQKDLEEVKVLLEKATRKRVRDALTAEKSKIETEIKNKMQQKSQKKAELLDNEKPAAVVAPITTGYTVKI
SNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNLNGKSYSMIVNNLLKPISVEGSSKKVKTDTV
LILCRKKVENTRWDYLTQVEKECKEKEKPSYDTETDPSEGLMNVLKKIYEDGDDDMKRTINKAWVESREKQAKGD
TEF

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FIGURE 899

TCCAATCGACAAGAAGCTGGAAGAATGAATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAA
TCCCGTTTGTTGGCACCATTCCCTGATCAGCTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCCTAGTG
ACGCAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTCA
ATCCTCGTTTCAAAAGGGCCGGCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCA
CCTATGACACGCCTTTCAAAAGAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTGAAGGACAAATCCAGGTGG
CTGTAAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCCAGAGAAAATAGACACTCTGGGCATTTATG
GCAAAGTGAATATTCCTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAC
TGACAGAGATAAGTAGAGAAAATGTTCCAAAGTCTGGCACGCCCCAGCTTCCTAGTAATAGAGGAGGAGACATTT
CTAAAAATCGCACCCAGAAGTGTCTACACCAAGAGCAAAGATTGCACTGTCAATCACACTTTGACTTGCACCAAAA
TACCACCTATGAAGTATGTGTCAAAGAGGCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAA
CTGTCGTCGTTAAAGGAGAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGG
ATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTGTGAAGAAATCTTTTCTCAGGAGTCTTGGG
GAGAAGAAGAGAGAAATATTACCTCTCTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATG
TTAGAGAATTCAAGGTTGCAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTA
TTGACACGCTGGAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTA
CAAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGC

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FIGURE 900

MMLSLNNLQNIINYNPVIFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAFHFNPRFKRAGC
IVCNTLINEKWGREIITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIG
FSFSSDLQSTQASSLELTEISRENVPKSGTPQLPSNRGGDISKIAPRTVYTKSKDSTVNHTLTCTKIPPMNYVSK
RLPFAARLNTPMGPGRTVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNKAFVRNSFLQESWGEEERNITS
LPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

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FIGURE 901

GTGCGGCCATTTTGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGATAGTGCCAGCTACGGTCCGCG
GCTGGGGTTCCCTCCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACTCAGCGATGCAAATCTGCAA
ACACTAACAGAAATATTTAAAGAAAACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAA
TCTGTTGAAGGAAATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAA
GTATGTGCTTCAGTAACATTCAAAAACTATATTAAGGAAGTGGAGAATTGTTGAAGATGAACCAAAACAAAT
TGTGAAGCCGATCGAGTGGCCATTAAAGCCAACATAGTGCATTGATGCTTAGCAGCCCAGAGCAAATTCAGAAG
CAGTTAAGTGATGCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATG
GTGAATCGCTTTAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCTATTATTTAAAGA
TACCGTCATGAATTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTG
ACTAATCTTTTTAAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTT
TCTTCCCTGATCCTGATCTCAAAATGTTCTATAGTTTAACTTTTCCAGGATCTCCCTGAATTTTGGGAAGGTAAT
ATGGAACTTGGATGAATAATTTCCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAG
GAAGCCGGCTTATTGGAGCTCTTAAATCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAA
GAATTCAGCGATACCTGCCTCGTTTGTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAA
TATGATTTGTTGGTAAGTAATGCAATTCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAACTATTT
GAGGACCAGAACACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAA
GAAGCATTGGAAGATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGG
GCTGCTGTGATCTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGTTATGTT
AATCCATGCTGCAGGAATACGCAAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTG
ACATCTTTGGCATCAAAAGCCCAACACAGAAGCATGGAATTACACAAGCAAATGAATCTGTAAACCTAACTGAG
TTCTTTGTGAATCACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGT
ATCAATATATATTGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTAGTCTCGATTCTCTCTTGATTAAT
CATCTTCAAGCTGGAAGTATTGTTGTTCACTTACGCAGCTCATGCTTGAACGGCTCTTTACTATGCGAGGG
CCTAACAAATGCCACTCTCTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGCTAACAAACCTTTTCAAA
GCTCTCACACTTCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTCTCTCTACAA
GAAGCCATAATCCCCTACATCCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCCA
AGCAAACCTCACTTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCTT
GCTGCTGTGTAAATTTTGAGGAGGCTTTGTTTTTGGTGTTTACTGAAATCTTACAAAATGATGTGCAAGAAATTT
ATTCCATACGTCTTTCAAGTGATGTCTTTGCTTCTGGAAACACACAAAATGACATCCCGTCTTCTATATGGCC
TTATTTCTCATCTCTTTCAGCCAGTGCTTTGGGAAAGAACAGGAATATTCTGCTCTAGTGAGGCTTCTTCAA
GCATTCTTAGAACGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATCCTGGGTTACTAGGTGCTTT
CAGAAGCTGATTGCATCCAAAGCAAATGACCACCAAGGTTTTATCTTCTAAACAGTATAATAGAGCACATGCCCT
CCTGAATCAGTTGACCAATATAGGAAACAAATCTTCACTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACC
AAGTTTATCAAGAGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATA
TTTGATGGTATACAACCAAAATGTTTGGAAATGGTTTTGGAAAAAATTATTATTCCTGAAATTCAGAAGGTATCT
GGAAATGTAGAGAAAAAGATCTGTGCGGTTGGCATAACCAACTTACTAACAGAATGTCCCCAATGATGGACACT
GAGTATACCAAACCTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTGGAGTTACCCGAAGATGATACCATT
CCTGATGAGGAACATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCT
GGGAAAAAAGAGCATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTCACATG
TTGTCTACCGCTGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTC
CAAGGGTACCTTCAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTT
CCTAGGAAATCACAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTTTCTTTTGAAGTGTGACGA

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FIGURE 902

MELSDANLQTLTEYLKKTLDPDPAIRPAEKFLESVEGNQNYPLLLLTLEKSQDNVIKVCASVTFKNIYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGREDFPQKWPDLITEMVNRFAQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFWEGNMETWMNNFHLLTLDNKLQTDDEEEAGLLELLKSQICDAAALYAQKYDEEFQRYLPRFVTAIWNL
LVTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDL
GSDIDTRRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLSKASQTKHGITQ
ANELVNLTEFFVNHILPDLSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLINHLQAGSIVVHTYAHA
LERLFTMRGPNNATLFTAAEIAPFVEILLTNLFKALTLPSSSENEYIMKAIMRSFSLQEAIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPVLLQPVWERTGNIPALVRLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPEVDQYRKQIFILLFQRLQNSKTTKFISFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IIPETQKVSNGVEKKICAVGITNLLTECPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHQAQSLHMLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 903

GGCAGGAGAGACAAAGCAGCGCCCGTCTGCTTCGGGCTCTGGAATTTAGCGCTCGCCAGCTAGCCGAGAAA
TGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCAGTTG
AGAGACTGTTGGAGCCTCTTGTACACAGGTTACAACCCCTGTAAACACCAATAGTAAAGGGCCCTCTAATAAGA
AGAGAGGTCGTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTGGAGAAGG
GGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGGGCTGCTGTAGAAGATGTTGAAAACAAG
GTGATTTGATGAAGGCTGCTGCAGGAGAGTTGCGAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATGGTTC
GGGAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTGTGATTTGGCTGACATGGCAGATGTCTACAAATTAC
TTGTTGAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGAATCC
AGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAAGATG
TTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCATCCC
AGGCATGCCTACAGCACCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAGCAGG
CGGTACAGGCATTTCGAATGCAGCCAGGCCACTGCCTCAGACGATGCCTCAGCAGCAGGGGTGGAGGAGGAG
GAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCT
TTAGGCCTTCCCTGGAGGAGCGTCTGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCTGCACGC
GTGATGACCGTCTGAGCGAATTGTGGCAGAGTGAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTCGGAGT
ACATGGGCAATGCTGGACGTAAAGAAAGAGTGATGCACTCAATTCTGCAATAGATAAAATGACCAAGAAGACCA
GGGACTTGGCTAGACAGCTCCGCAAAGCTGTATGGACCACGTTTCAGATTCTTTCCTGAAACCAATGTTCCAC
TTTTGTTATTGATTGAAGCTGCAAAGATGAAATGAGAAAGAAGTTAAGGAGTATGCCAAGTTTTCCGTGAAC
ATGCCAACAAATTGATTGAGGTTGCCAACTTGGCCTGTCCATCTCAAATAATGAAGAAGGTGTAAGCTTGTTC
GAATGTCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAACCAC
AGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACAGATG
CTGTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGAAGATGTGAACAAAT
GTGTCTATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGAGCCC
GGGTCTTACGCTAGTCACCTCAGAGATGGACAACATAGGCCAGGAGTCTACACAGAGAAGGTTCTGGAAGCCA
CTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGCTCGG
ACCCTGCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGACATCA
GGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGATGTCA
GAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCTCAGC
TTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGATGCTG
AAGTGTCCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATGGAGA
TGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCGGATGTCTCAGTGTGCCAAGAAAATTGCTG
AGGCAGGATCCAGGATGGACAAGCTTGGCCGCACCATTGACAGACCATTGCCCCGACTCGGCTTGAAGCAGGACC
TGCTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAGGTGC
AGAATCTCGGCGGGGAGCTTGTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAATTGA
TGAATGCTGTGGTGACAGAGTGAAGGCATCTACGTGCGCTCTACCAAATACCAAAGTCAAGGGTATGGCTT
CCCTCAACCTTCTGTGTGTATGGAAGATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAGAAACAGG
ATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCAGTGAACCCGTTGAGGCCCTCAGCGAGTTCA
AAGCTATGGACAGCATCTAAGTCTGCCCAGGCCGGCCGCCCCACCCCTCGGGGCTCCTGAATATCAGTCACTGT
TCGTCACTCAAATGAATTTGCTAAATACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACAGTC
CAGGTGGTGAATTTTCCAAGAACATAGTTTAAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTCTAGC
TGTATTTTTTGTATGCTTAAATAAAAAATAAAATTCATAACCAAGAGAATCCACATTAGCTTGTAGTAATGC
TCTGACCAAGCCGAGATGCCATTCTCTAGTGATGGCGGCGTTAGGGTTTGAGAGAAGGGAATTTGGCTCAACT
TCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTAAATGACCAAAGATGACCTGTGGTAAGCAACCTGG
GCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAACTCACTCAGTAAAA
CATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTTAAATGCATTGTTATAATTACTAAT
GTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 904

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLNRNAGNEQDLGIQYKALKPEVDKLNIMAARQQELKDVGHRDQMAAARGILQKNVPILYTAS
QACLQHPDVAAYKANRDLIYQLQQAVTGISNAAQATASDDASQHQGGGGGELAYALNNFDKQIIVDPLSFSEER
FRPSLEERLESIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDFSLETNPVLLVIEAAKNGNEKEVKEYAQVFRHANKLIEVANLACSI SNNEEGVKLV
RMSASQLEALCPQVINAALALAAKPSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNK
CVIALQEKDVDGLDRTAGAIRGRAARVIHVVTSEMDNYEPGVYTEKVLEATKLLSNTVMPRFTEQVEAAVEALSS
DPAQPMDENEFIDASRLVYDGIRDIRKAVLMIRTPEELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQCMIMMEMTDFTRGKGPLKNTSDVISAACKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICSKVKAQVQNLGGELVVSGVDSAMSLIQAAKNL
MNAVVTQVKASYVASTKYQKSQGMASLNLPAVSWKMKAPKKPLVKREKQDETQTKIKRASQKKHVNVPVQALSEF
KAMDSI

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FIGURE 905A

GCGAGAGGAGTCCGGATCTGCGCTGCAGCCACCGCCGCGTTGATACTACTTTGACCTTCCGAGTGCAGTGAGGC
ATACATCACAATTGGGAATTATGCATTGGTTTATCAATTTACTTGTATTGTCACCCTGCTGCCAGATATGAC
TTCATGAGGACAGTGATGTGTGTTCTGAAATTGTGAACCATGAGTCTAGTACTTAATGATCTGCTTATCTGCTGC
CGTCAACTAGAACATGATAGAGCTACAGAACGAAAGAAAGTTGAGAAATTTAAGCGCTGATTGAGATCCT
GAAACAATTAAACATCTAGATCGGCATTAGATTCCAAACAAGGAAATATTTGAATTGGGATGCTGTTTTAGA
TTTTTACAGAAATATATTAGAAAGAAACAGAAATGTCTGAGAATAGCAAAACCAATGTATCAGCCTCAACACAA
GCCTCCAGGCAGAAAAAGATGCAGGAAATCAGTAGTTTGGTCAAATACTTCATCAATGTGCAACAGAGAGCA
CCTAGGCTAAAATGTCAAGAACTCTTAAATTATATCATGGATACAGTGAAAGATTATCTAATGGTGTCTATTAC
GGAGCTGATTGTAGCAACATACTACTCAAAGACATTCTTCTGTGAGAAAATACTGGTGTGAAATATCTCAGCAA
CAGTGGTTAGAATTGTTCTCTGTGTACTTCAGGCTCTATCTGAAACCTTCACAAGATGTTTATAGAGTTTATG
GCTAGAATAATTATGCTGTACCAAAGGATGCTGTTCTCAGACTGACGGATTAAATTCAAATTTTTGGACTTT
TTTTCCAAGGCTATTAGTGTGCGAGACAAGAAAGAGCTCTTCAGGTCTAAATCATATCTTAGCAGCTCTTACT
ATCTTCTCAAGACTTTGGCTGTCAACTTTGCAATTCGAGTGTGTGAATTAGGAGATGAAATCTTCCCACCTTG
CTTTATATTTGGACTCAACATAGGCTTAATGATTCTTTAAAAGAAGTCATTATTGAATTATTTCAACTGCAAATT
TATATCCATCATCCGAAAGGAGCCAAAACCAAGAAAAGGTGCTTATGAATCAACAAAATGGAGAAGTATTTTA
TACAATTATATGATCTGCTAGTGAATGAGATAAGTCATATAGGAAGTAGAGGAAAGTATCTTCAGGATTTGCT
AATATTGCCGTCAAAGAAAATTTGATTGAATTGATGGCAGATATCTGTACCAGGTTTTTAATGAAGATACCAGA
TCCTTGGAGATTTCTCAATCTTACACTACTACACAAAGAGAATCTAGTGATTACAGTGTCCCTTGCAAAAGGAAG
AAAATAGAACTAGGCTGGGAAGTAATAAAAGATCACCTTCAGAAGTCACAGAATGATTTTGATCTTGTGCCTTGG
CTACAGATTGCAACCCAATTAATATCAAAGTATCTGCAAGTTTACCTAACTGTGAGCTGTCTCCATTACTGATG
ATACTATCTCAGCTTCTACCCCAACAGCGACATGGGGAACGTACACCATATGTGTTACGATGCCTTACGGAAGTT
GCATTGTGTCAAGACAAGAGGTCAAACCTAGAAAGCTCACAAAAGTCAGATTTATTAATACTCTGGAATAAAATT
TGGTGTATTACCTTTCTGTTGATAAGTTCTGAGCAAATACAAGCTGAAAACCTTTGGCTTACTTGGAGCCATAATT
CAGGGTAGTTTAGTTGAGGTTGACAGAGAATCTGGAAGTTATTTACTGGGTGAGCCTGCAGACCTTCATGTCTCT
GCAGTATGCTGTTTACTTTGGCACTGACCACCAGTATAGTTCCAGGAGCGGTAAAAATGGGAATAGAGCAAAT
ATGTGTGAAGTAAATAGAAGCTTTTCTTTAAAGGAATCAATAATGAAATGGCTCTTATTCTATCAGTTAGAGGGT
GACTTAGAAAAATAGCACAGAAGTGCTTCAATCTTTCACAGTAATTTTCTCATCTTGACTGGAGAAAATCTTT
GTGAGTCTCACTATGAAAACGTAAAGCTGCAATGAATTTTTTCCAAAGCGTGCCAGAATGTGAACACCACCAA
AAAGATAAAGAAGAACTTTTCTCTCAGAAGTAGAAGAACTATTTCTTCAGACAACTTTTGACAAGATGGACTTT
TTAACCATTGTGAGAGAATGTGGTATAGAAAAGCACCAGTCCAGTATTGGCTTCTCTGTCCACCAGAATCTCAAG
GAATCACTGGATCGCTGTCTTCTGGGATTATCAGAACAGCTTCTGAATAATTACTCATCTGAGATTACAAATCA
GAAACTCTTGTCCGGTGTTCACGTCTTTTGGTGGGTGTCTTGGCTGCTACTGTTACATGGGTGTAATAGCTGAA
GAGGAAGCATATAAGTCAGAATTATTCCAGAAAGCCAACTCTTAATGCAATGTGCAGGAGAAAGTATCACTCTG
TTTAAAAATAAGACAAATGAGGAATTCAGAATTGGTTTCTTGAGAAATATGATGCAGCTATGTACACGTTGCTTG
AGCAACTGTACCAAGAAGAGTCCAAATAAGATTGCATCTGGCTTTTCTGCGATTGTTAATCAAAAGCTAATG
AATGACATTGCAGATATTTGTAAAAGTTTAGCATCTTTCATCAAAAAGCCATTTGACCGTGGAGAAGTAGAATCA
ATGGAAGATGATACTAATGGAATCTAATGGAGGTGGAGGATCAGTCATCCATGAATCTATTTAACGATTACCTT
GATAGTAGTGTTAGTGATGCAAACGAACCTGGAGAGAGCCAAAGTACCATAGGTGCCATTAATCCTTTAGCTGAA
GAATATCTGTCAAAGCAAGATCTACTTTTCTTAGACATGCTCAAGTTCTTGTGTTTGTGTGTAACACTGCTCAG
ACCAATACTGTGTCTTTAGGGCAGCTGATATTCGGAGGAAATGTTAATGTTAATTGATTCTAGCACGCTAGAA
CCTACCAAATCCCTCCACCTGCATATGTATCTAATGCTTTTAAAGGAGCTTCTTGAGAGAAGAGTACCCCTTGCCA
ATGGAAGATGTTCTTGAACCTTCTGAAACCACTATCCAATGTGTGTTCTTTGTATCGTGTGACCAAGATGTTTGT
AAAACATTTTTAAACCATGCTTTCATGTAGTGA AAAACCTAGGTCAAAGCAATATGGACTCTGAGAACACAAGG
GATGCTCAAGGACAGTTTCTTACAGTAATTGGAGCATTTTGGCATCTAACAAAGGAGAGGAAATATATATTCTCT
GTAAGAAATGGCCCTAGTAAATTGCCTTAAACCTTGGCTTGAGGCTGATCCTTATTCAAAATGGGCCATTCTTAAT
GTAATGGGAAAAGACTTTCTGTAAATGAAGTATTTACACAATTTCTTGCTGACAATCATCACCAGTTTCGCATG
TTGGCTGCAGAGTCAATCAATAGATTGTTCCAGGACACGAAGGGAGATTCTTCCAGGTTACTGAAAGCACTTCTT
TTGAAGCTTCAGCAACAGCTTTTGAAAATGCATACTTGAAAGCTCAGGAAGGAATGAGAGAAATGTCCCATAGT

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FIGURE 905B

GCTGAGAACCCTGAAACTTTGGATGAAATTTATAATAGAAAATCTGTTTTACTGACGTTGATAGCTGTGGTTTTA
TCCTGTAGCCCTATCTGCGAAAAACAGGCTTTGTTGCCCTGTGTAAATCTGTGAAAGAGAATGGATTAGAACCCT
CACCTTGTGAAAAAGGTTTTAGAGAAAGTTTCTGAAACTTTTGGATATAGACGTTTAGAAGACTTTATGGCATCT
CATTTAGATTATCTGGTTTTGGATGGCTAAATCTTCAAGATACTGAATACAACCTATCTTCTTTCTTTTATT
TTATTAAACTACACAAAATTGAGGATTTCTATAGATCTTGTTATAAGGTTTTGATTCCACATCTGGTGATTAGA
AGTCATTTTGTAGAGGTGAAGTCCATTGCTAATCAGATTCAAGAGGACTGAAAAGTCTTCTAACAGACTGCTTT
CCAAAGATTCTTGTAATATTCTTCCTTATTTTGCCTATGAGGGTACCAGAGACAGTGGGATGGCAGCAGCAAAGA
GAGACTGCTACCAAGGTCTATGATATGCTTAAAGTGAAAACCTATTGGGAAAACAGATTGATCACTTATTTCATT
AGTAATTTACCAGAGATTGTGGTGGAGTTATTGATGACGTTACATGAGCCAGCAAATCTAGTGCCAGTCAGAGC
ACTGACCTCTGTGACTTTTCAGGGGATTGGATCCTGCTCCTAATCCACCTCATTTTCCATCGCATGTGATTAAA
GCAACATTTGCCTATATCAGCAATTGTCATAAAACCAAGTTAAAAAGCATTTTAGAAATCTTTCCAAAAGCCCT
GATTCTATCAGAAAATCTTCTTGCCATATGTGAGCAAGCAGCTGAAACAAATAATGTTTATAAGAAGCACAGA
ATTCTTAAATATATCACCTGTTTGTAGTTTATTACTGAAAGATATAAAAGTGGCTTAGGAGGAGCTTGGGCC
TTTGTCTTCGAGACGTTATTTATACTTTGATTCACTATATCAACCAAAGGCCTTCTGTATCATGGATGTGTCA
TTACGTAGCTTCTCCCTTGTGTGACTTATTAAGTCAGGTTTGCCAGACAGCCGTGACTTACTGTAAGGATGCT
CTAGAAAACCATCTTCATGTTATTGTTGGTACACTTATACCCCTTGTGTATGAGCAGGTGGAGGTTGAGAAACAG
GTATTGGACTTGTGAAATACCTAGTGATAGATAACAAGGATAATGAAAACCTCTATATCACGATTAAAGCTTTTA
GATCCTTTTCTGACCATGTTGTTTTTAAGGATTTCGCTATTACTCAGCAAAAAATCAAATACAGTAGAGGACCC
TTTTCACTCTTGAGGAAATTAACCATTTCTCTCAGTAAGTGTATGATGCACTTCCATTGACAAGACTTGAA
GGACTAAAGGATCTTCGAAGACAACCTGGAACACATAAAGATCAGATGCTGGACATTATGAGAGCTTCTCAGGAT
AATCCGCAAGATGGGATTATGGTGAACTAGTTGTCAATTTGTTGCAGTTATCCAAGATGGCAATAAACCACACT
GGTGAAAAAGAAGTTCTAGAGGCTGTTGGAAGCTGCTTGGGAGAAGTGGGTCCTATAGATTCTCTACCATAGCT
ATACAACATAGTAAGATGCATCTTATACCAAGGCCCTTAAGTTATTTGAAGATAAAGAACTTCAGTGGACCTTC
ATAATGCTGACCTACCTGAATAACACACTGGTAGAAGATTGTGTCAAAGTTCGATCAGCAGCTGTTACCTGTTTG
AAAAACATTTTAGCCACAAAGACTGGACATAGTTTCTGGGAGATTTATAAGATGACAACAGATCCAATGCTGGCC
TATCTACAGCCTTTTAGAACATCAAGAAAAAGTTTTTAGAAGTACCCAGATTTGACAAAGAAAACCCCTTTTGAA
GGCCTGGATGATATAAATCTGTGGATTCTCTAAGTGAAATCATGACATTTGGATAAAGACACTGACTTGTGCT
TTTTTGGACAGTGGAGGCACAAAATGTGAAATCTTCAATTATTAAAGCCAATGTGTGAAGTGAAAACCTGACTTT
TGTCAGACTGTACTTCCATACTTGATTTCATGATATTTTACTCCAAGATACAAATGAATCATGGAGAAATCTGCTT
TCTACACATGTTGAGGATTTTTCACCAGCTGTCTTCGACACTTCTCGCAAACGAGCCGATCCACAACCCCTGCA
AACTTGGATTGAGAGTCAGAGCACTTTTTCCGATGCTGTTTGGATAAAAAATCACAAGAACAAATGCTTGTGTT
GTGGACTACATGAGAAGACAAAAGAGACCTTCTTCAGGAACAATTTTTAATGATGCTTTCTGGCTGGATTAAAT
TATCTAGAAGTTGCCAAGGTAGCTCAGTCTTGCTGCTCACTTTACAGCTTTACTCTATGCAGAAATCTATGCA
GATAAGAAAAGTATGGATGATCAAGAGAAAAGAGTCTTGCAATTTGAAGAAGGAAGCCAGAGTACAACATTTCT
AGCTTGAGTGAAAAAGTAAAGAAGAACTGGAATAAGTTTACAGGATCTTCTCTTAGAAATCTACAGAAGTATA
GGGGAGCCAGATAGTTTGATGGCTGTGGTGGAGGGAAGATGTACAACCCATTACTAGACTACGAACATATGAA
CACGAAGCAATGTGGGGCAAAGCCCTAGTAACATATGACCTCGAAACAGCAATCCCCTCATCAACAGCCAGGCA
GGAATCATTGAGCCTTGCGAATTTGGGACTCTGCCATATTCTTCCGCTATTTAAAGGATTGGATTATGAA
AATAAAGACTGGTGTCTGAACTAGAAGAACTTCATTACCAAGCAGCATGGAGGAATATGCAGTGGGACCATTGC
ACTTCCGTCAGCAAAGAAGTAGAAGGAACCAAGTTACCATGAATCATTGTACAATGCTCTACAATCTCTAAGAGAC
AGAGAATTTCTTACATTTTATGAAAGTCTCAAATATGCCAGAGTAAAAGAAGTGGAAGAGATGTGTAAGCGCAGC
CTTGAGTCTGTGATTCTGCTCTATCCACACTTAGCAGGTTGCGAGGCCATTGGAGAGCTGGAAAGCATTGGGGAG
CTTTTCTCAAGATCAGTCACACATAGACAACCTCTCTGAAGTATATATTAAGTGGCAGAAACACTCCCAGCTTCTC
AAGGACAGTGATTTTAGTTTTAGGAGCCTATCATGGCTCTACGCACAGTCATTTTGGAGATCCTGATGGAAAAG
GAAATGGACAACCTCACAAGAGAATGTATTAAGGACATTCTCACCAAACACCTTGTAAGACTCTCTATACTGGCC
AGAATTTTCAAGAACACTCAGCTCCCTGAAAGGGCAATATTTCAAATTAACAGTACAATTCAGTTAGCTGTGGA
GTCTCTGAGTGGCAGCTGGAAGAAGCACAAGTATTCTGGGCAAAAAGGAGCAGAGTCTTGCCTGAGTATTCTC
AAGCAATGATCAAGAAGTTGGATGCCAGCTGTGCAGCGAACAAATCCCAGCCTAAAACCTTACATACACAGAATGT

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FIGURE 905C

CTGAGGGTTTGTGGCAACTGGTTAGCAGAAACGTGCTTAGAAAATCCTGCGGTTCATCATGCAGACCTATCTAGAA
AAGGCAGTAGAAGTTGCTGGAAATTATGATGGAGAAAGTAGTGATGAGCTAAGAAATGGAAAAATGAAGGCATTT
CTCTCATTAGCCCGGTTTTTCAGATACTCAATACCAAAGAATTGAAAACCTACATGAAATCATCGGAATTTGAAAAC
AAGCAAGCTCTCCTGAAAAGAGCCAAAGAGGAAGTAGGTCTCCTTAGGGAACATAAAATTCAGACAAACAGATAC
ACAGTAAAGGTTTCAGCGAGAGCTGGAGTTGGATGAATTAGCCCTGCGTGCACTGAAAGAGGATCGTAAACGCTTC
TTATGTAAAGCAGTTGAAAATTATATCAACTGCTTATTAAGTGGAGAAGAACATGATATGTGGGTATTCCGGCTT
TGTTCCCTCTGGCTTGAAAATTCTGGAGTTTCTGAAGTCAATGGCATGATGAAGAGAGACGGAATGAAGATTCCA
ACATATAAATTTTTGCCTCTTATGTACCAATTGGCTGCTAGAAATGGGGACCAAGATGATGGGAGGCTTAGGATTT
CATGAAGTCCCTCAATAATCTAATCTCTAGAATTTCAATGGATCACCCCATCACACTTTGTTTATTATACTGGCC
TTAGCAAATGCAAAACAGAGATGAATTTCTGACTAAACCAGAGGTAGCCAGAAGAAGCAGAATAACTAAAAATGTG
CCTAAACAAAGCTCTCAGCTTGATGAGGATCGAACAGAGGCTGCAATAGAATAATATGTACTATCAGAAGTAGG
AGACCTCAGATGGTCAGAAGTGTGAGGCATTTGTGATGCTTATATTATATTAGCAAACCTTAGATGCCACTCAG
TGGAAGACTCAGAGAAAAGGCATAAATATTCCAGCAGACCAGCCAATTACTAACTTAAGAATTTAGAAGATGTT
GTTGTCCCTACTATGGAATTAAGGTGGACCACACAGGAGAATATGGAATCTGGTGACTATACAGTCATTTAAA
GCAGAATTTCCGCTTAGCAGGAGGTGTAAATTTACCAAAAATAATAGATTGTGTAGGTTCCGATGGCAAGGAGAGG
AGACAGCTTGTTAAGGGCCGTGATGACCTGAGACAAGATGCTGTCATGCAACAGGTCTTCAGATGTGTAATACA
TTACTGCAGAGAAAACCGAAACTAGGAAGAGGAAATTAATCTATCTGTAATTATAAGGTGGTTCCCTCTCTCAG
CGAAGTGGTGTCTTGAATGGTGCACAGGAACGTCCCCATTGGTGAATTTCTTGTAAACAATGAAGATGGTGCT
CATAAAGATACAGGCCAAATGATTTCAAGTGCCTTTCAGTGCCAAAAGAAAATGATGGAGGTGCAAAAAAGTCT
TTTGAAGAGAAATATGAAGTCTTCATGGATGTTTGCCAAAATTTCAACCAGTTTTCCGTTACTTCTGCATGGAA
AAATCTTGGATCCAGCTATTTGGTTTGAGAAGCGATTGGCTTATACGCGCAGTGTAGCTACTTCTTCTATTGTT
GGTTACATACTTGGACTTGGTGATAGACATGTACAGAATATCTTGATAAATGAGCAGTCAGCAGAACTTGTACAT
ATAGATCTAGGTGTGCTTTTGAACAGGGCAAAATCCTTCCTACTCCTGAGACAGTTCCTTTTAGACTCACCAGA
GATATTGTGGATGGCATGGGCATTACGGGTGTTGAAGGTGCTTCAGAAGATGCTGTGAGAAAACCATGGAAGTG
ATGAGAACTCTCAGGAACTCTGTTAACCATTGTAGAGGTCTTCTATATGATCCACTCTTTGACTGGACCATG
AATCCTTTGAAAGCTTTGTATTTACAGCAGAGGCCGGAAGATGAAACTGAGCTTCACCCTACTCTGAATGCAGAT
GACCAAGAATGCAAACGAAATCTCAGTGATATTGACCAGAGTTTCAACAAAGTAGCTGAACGTGTCTTAATGAGA
CTACAAGAGAACTGAAAGGAGTGAAGAAGGCACTGTGCTCAGTGTTGGTGGACAAGTGAATTTGCTCATACAG
CAGGCCATAGACCCCAAAATCTCAGCCGACTTTTCCCAGGATGGAAAGCTTGGGTGTGATCTTCAGTATATGAA
TTACCCCTTTCAATCAGCCTTTAGAAATTATATTTAGCCTTTATTTTAACTGCCAACATACTTTAAGTAGGGA
TTAATATTTAAGTGAATATTGTGGGTTTTTTTTGAATGTTGGTTTTAATACTTGATTTAATCACCCTCAAAAAT
GTTTTGATGGTCTTAAAGGAACATCTCTGCTTTCACTCTTTAGAAAATAATGGTCATTCGGGCTGGGCGCAGCGGCT
CACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAGCGGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGC
CAAGAGACCAGCCTGGCCAGTATGGTGAAACCTGTCTCTACTAAAAATACAAAATTAGCCGAGCATGGTGGCG
GGCACCTGTAGTCCCAGCTACTCGAGAGGCTGAGGCAGGAGAATCTTTGAACCTGGGAGGTGAAGGTTGCTGTG
GGCCAAAATCATGCCATTGCACTCCAGCCTGGGTGACAAGAGCGAACTCCATCTCAAAAA

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FIGURE 906

MTLHEPANSSASQSTDLCDFSGDLDPAPNPPHFP SHVIKATFAYISNCHKTKLKSILEILSKSPDSYQKILLAI
EQAAETNNVYKKHRILKIYHLFVSLLLKDIKSGLGGAFAVLRDVIYTLIHYINQRPSCIMDVSLRSFSLCCDLL
SQVCQTAVTYCKDALENHLHVIGTLIPLVYEQVEVQKQVLDLLKYLVIDNKNENLYITIKLLDPFPDHFVFKD
LRITQQKIKYSRGFFSLLEEINHFSLSVSYDALPLTRLEGLKDLRRQLELHKDQMDIMRASQDNPDQDIMVKLV
VNLLQLSKMAINHTGEKEVLEAVGSCLEVGPIDFSTIAIQHSDASYTKALKLFEDKELQWTFIMLTYNNTLV
EDCVKVRSAAVTCLKNILATKTGHSFWEIYKMTTDPMLAYLQPFRTSRKKFLEVPRFDKENPFEGLLDINLWIPL
SENHDIWIKTLTCAFLDSGGTKCEILQLLKPMCEVKTDFCQTVLPYLIHDILLQDTNESWRNLLSTHVQGFFTSC
LRHFSQTSRSTTPANLDSESEHFFRCCLDKKSQRTMLAVVDYMRQKRPSSGTIFNDAFWLDLNYLEVAKVAQSC
AAHFTALLYAEIYADKKSMDDEKRSIAFEEGSQSTTISSSEKSKEETGISLQDLLLEIYRSIGEPDSLYGCGG
GKMLQPIITRLRYEHEAMWGKALVTYDLETAIPSSSTRQAGIIQALQNLGLCHILSVLYKGLDYENKDWCFELEEL
HYQAAWRNMQWDHCTSVSKEVEGTSYHESLYNALQSLRDREFSTFYESLKYARVKEVEEMCKRSLESVYSLYPTL
SRLQAIGELESIGELFSRSVTHRQLSEVYIKWQKHSQLLKQSDFSFQEPIMALRTVILEILMEKEMDNSQRECIK
DILTKHLVELSILARTFKNTQLPERAIFQIKQYNSVSCGVSEWQLEEAQVFWAKKEQSLALSILKQMIKKLDASC
AANNPSIKLTYTECLRVCGNWLAETCLENPAVIMQTYLEKAVEVAGNYDGESSDELNRNGMKAFSLARFSDTQY
QRIENYMKSSSEFENKQALLKRAKEEVGLLREHKIQTNRYTVKQVQRELELDELALRALKEDRKRFLCKAVENYINC
LLSGEEHDMWVFRCLSLWLENSGVSEVNGMMKRDGMKIPTYKFLPLMYQLAARMGTMKGGLGFHEVLNLIISRI
SMDHPHTLFIILALANANRDEFLTKEVARRSRITKNVPKQSSQLDEDRTEANRIICTIRSRPQMVRSEAL
CDAYIILANLDATQWKTQRKGINIPADQPITKLKNLEDVVPTMEIKVDHTGEYGNLVTIQSFKAERLAGGVNL
PKIIDCVGSDGKERRQLVKGRDDLQDAVMQQVFQMCNTLLQRNTETRKRKLTICTYKVVPLSQSRGVLEWCTGT
VPIGEFLVNEDGAHKRYRPNDFAFQCQKKMMEVQKKSFEKYEVMQVQNFQPVFRYFCMEKFLDPAIWFEK
RLAYTRSVATSSIVGYILGLDRHVQNILINEQSALVHIDLGVAFEQKILPTPETVFPFLTRDIVDGMGITGV
EGVFRRCCEKTMEVMRNSQETLLTIVEVLLYDPLFDWTMNPALKALYLQQRPEDETELHPTLNADDQECKRNLSDI
DQSFNKVAERVLMLRQEKLGVEEGTVLSVGGQVNNLIQQAIDPKNLSRLFPGWKAWV

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FIGURE 907

GCCTGCGCGGTAGTGGGACCCGACCCTGTCTCCAGTGGGCGTCTTGGGCCCCGGCTCTATTCTGGGCTGCGGGCC
TGGGAAGGGCTCGCCGGGTGCCAAATGAGCTGTCTAACTCTGCGGGGCTGCAGCTTCCTGCATGATGCTGGGGA
GCTTGGCGCCTGACCCAGGATCTAGAAGGCACTCTGGGCAGGCCGCGCTCCGCCCACGAAGGTACCCAACCCTCT
GGGATAGATGCAGGAAGCGATGGTTAAGACCCATTTTCACCCAACCTCTCGCCGCAGGTCTGGCTTACCACACGC
TCCTCCCCATTCCCAGTGAGCCGCTTTTTGCAGCACCAGGCGAACACTTACACCAGTGCTTTGTAAAGGAATCTT
ATTGTCCACCCCGTGTCTTGGCAAAAGAAGCAGTGATCACACAGATTCTACTTGGGCTCTTTCCTTTAATCTTCG
GAGGCTGAGTTTGCCCAACTCAGGTTTAACCACCAAGGACTCTGAGAGCTGGCAGGTCTGAGTAACCCTGGTAAC
AATTCTCTTCACCTTATCAAAACCTGAGCTAAAACCAATGCATCAGCTGATGATGACAGCAGAGAGTGGCAGGGC
TGAGGACCCAAAGTCATTTCCAGGCTGGCGGAGAATAAACTGCCAGGGAGAAGAATGAGAAGACAGGAGACAAA
CTGTTTGAAAGCTAAATCTTCCCTCTTAATGAATAAAGGTTTTGCCTTGTCTTAAAGTTTCTGAGTCCTAATT
TTGGCAAAATAAATAACTTATGGTAATCTGGAATTGTATTTGTAATATTAAGTGTTTGAACCTCTAACATTTA
CTTCCCAAAATCAAACCTTCAGTTTCAAAAT

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FIGURE 908

MMLGSLAPDPGSRRHSGQAALRPPTYTLWDRCKRWLRPIFTQLLAAGLAYHTLLPIPSEPLFAAPGEHLHQCF
VKESYCPFRVLAKEQ

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FIGURE 909

GTGTTTGAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTAAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACCTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCAATGCATATTGTGAAAACCCAGATATAGTGTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCTACTTTGAACTAGTGTCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCTCTGGA
TTCTGTAAGGAGTGGTGGCATCAAATGGTGTGCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCAT
GTGGCTGTGAGAGTCAAGTAAGTGACATAGTAGTTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAAATTAATTTGTTGCAGCTTTGTAATATTTCTTTAAGATTTCAGCTGAGAGTTAGGAGAAAT
ATTTTCAGAGCCAAAAGTGCCTTATACAACTTAGCCTATTATAGTAAATCATTCAAGGATTGAGAAATTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTACCTGCCTTAATGTAGGTAGGCCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTGAGAGCTCATGCCATAGG
TGACATTCTAAAATACCATTAAAGCCACTTAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAACATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AAACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTATTTTATGGCTTTAGTTCACTGTGATTGTACATTTATACCTTGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGTCTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTTCTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAAATTACTCATCTCTGCTTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAAATGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAAGATAGATGTTTATATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTCTGTAGCCTATATTTTTCATAGAGCTCATGAGCATTACTGTACTTGTCTGGTCTTGCC
AAGATCATTTATTCCGCTGCATTGCCAAAGTGTCTTCATACCAAATTAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTCAITTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTGAATAAAGTAG
ATCAAACTTCCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGATAAAAA
TACATGTATTTTATGGTGGCAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGTGGTTA
CACTAGAAGCCAGACTTTACGACTACACAATATATTCATGTATCTAACTGTACTTGTACCCCTAAATTTATT
TTTAAAAA

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FIGURE 910

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

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FIGURE 911

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAAAAGAGCGCCCAAGAAGAAAATGCGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTTGGACGATTTGCCAGCTT
TGAGGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACTA
TACTCCGATCACCAATGTACCTCCAGAGGTAACGTGTGCTCACGAACAGCCCTGTGGAACGTAGAGAGCCCAACGT
CCTCATCTGTTTTCATCGACAAGTTCACCCACCAGTGGTCAATGTACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCACATCTCCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGAGTGGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGATGTTTCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGACTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCGTTTTCAGCCCTATAGCCACCCCA
AGTGTGGTTATGCCTCCTCGATTGCTCCGTACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGT
ATCTATTTTCCTCTATTTCCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGT
CTCTGCTATGGAATGCCCCATGGGGCTCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACCTGTGATTTTTCTG
AACACAATAAACTATTTTGATGATCTTGGGTGGAAAA

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FIGURE 912

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDGDEIFHVDMAKKETVWRLEEFGR
FASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLNSPVELREPNVLICFIDKFTPPVVNVTWLRNG
KPVITGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT
VGLVGIIIGTIFIIGVRKSNAEERRGPL

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FIGURE 913

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGGG
TCCGTGTCTGTCTCGGTTGGCCGGACCCGGGCCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAT
GGCAGAAAAATCTAACCTTGCAATATGATATTGTGCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCCTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCTTGTCTTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGCA
TGGAATCTATAAGCAGGATCTTCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCAATTAATAGAGGAAACTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACATATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCTCCAGCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAA
AGTTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTAGTGGAGGTTACAAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

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FIGURE 914

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFHGRAF
SDPFFVEAEKSNLAYDIVQWPTGLTGIKVTYMEERNFTTEQVTAMLLSKLKETAESVLKPKVVDCCVSVPCFYTD
AERRSVMDATQIAGLNCRLMNETTAVALAYGIYKQDLPRLEEKPRNVVFDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFC EEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFSVEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQSESEERP NYLKN

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FIGURE 915

GAATCAGGAAGACCAGCTCCTCCTACTGTCTTCTGTGTTACGGGATCAGCGTTCCTTGTGAGTGGGACCTGAGT
TTTGAGAGGGTCTTCTGCTCCTCTTGGTCTGGTCCCTTACTTCCAAGAGCCCCAGAGAGGAAGGCATGCTGTTGG
CTCTAGCTCTGCTTCTAGCTTTCCCTGCCTCCTGCCAGTCAGAAATCTTCCAACCTTGGAGGGGAGAACAAAGTCAG
TCACCAGGCCAACTGGGTCATCAGCTGTAATCACTTGTGATCTTCCCTGTAGAAAATGCCGTCTACACCCACTGGT
ACCTACACCAGGAGGGGAAGGCCCCACAGCGTCTTCTGTACTATGACTCCTACAACCTCCAGGGTGTGTTGGAAT
CAGGAATCAGTCGAGAAAAGTATCATACTTATGCAAGCACAGGGAAGAGCCTTAAATTTATACTGGAAAATCTAA
TTGAACGTGACTCTGGGGTCTATTACTGTGCCACCTGGAAGGATTATTATAAGAACTCTTGGCAGTGGAAACA
CACTTGTGTGTCACAGATAAAACAACCTTGATGCAGATGTTTCCCCAAGCCCACTATTTTTCTCCTTCGATTGCTG
AAACAAAACCTCCAGAAGGCTGGAACATATCTTGTCTTCTTGAGAAATTTTTCCAGATATTATTAAGATACATT
GGCAAGAAAAGAAGAGCAACACGATTCTGGGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGA
AATTTAGCTGGTTAACGGTGCCAGAAGAGTCAGTGGACAAAAGAACACAGATGTATCGTCAGACATGAGAATAATA
AAAACGGAATTGATCAAGAAATTATCTTTCCTCCAATAAAGACAGATGTCACCACAGTGGATCCCAAAGACAGTT
ATTCAAAGATGCAAATGATGTACCCACAGTGGATCCCAAATACAATTATTCAAAGGATGCAAATGATGTATCA
CAATGGATCCCAAAGACAATTGGTCAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAACACCTCTGCAT
ATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCTGCTTGGAAAGAA
CGGCTTTCTGCTGCAATGGAGAGAAATCATACAGACGGTGGCACAAGGAGGCCATCTTTTCTCATCGGTTATT
GTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTCTGGGTTTGGGCCATTTTCACTTCTCATGTGTGT
ACTATTCTATCATTATTGTATAATGGTTTTCAAACAGTGGGCACACAGAGAACCTCAGTCTGTAATAACAATGA
GGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTCCACAGCTCCTCCAGCCAACCCAAATAGCGCC
TGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTCTTTAATCAGATAACTGCCTGGA
AGCCTTTTCAATTTTACACGCCCTGAAGCAGTCTTCTTGTAGTTGAATTATGTGGTGTGTTTTCCGTAATAAGC
AAAATAAATTT

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FIGURE 916

MLLALALLLAFLLPPASQKSSNLEGRKSVTRPTGSSAVITCDLPVENAVYTHWYLHQEGKAPQRLLYDSYNSRV
VLESGISREKYHTYASTGKSLKFILENLIERDSGVYYCATWKDYKKLFGSGTTLVVTDKQLDADVSPKPTIFLP
SIAETKLQKAGTYLCLLEKFFPDIIKIHWQEKKSNTILGSQEGNTMKTNDTYMKFSWLTVPESLDKEHRCIVRH
ENNKNPIDQEIIFPPIKTDVTTVDPKDSYSKDANDVTTVDPKYNYSKDANDVITMDPKDNWSKDANDTLLLQLTN
TSAYMYLLLLLKSVMYFAIITCCLLGRTAFCCNGEKS

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FIGURE 917

GAATTCCTTTTTTGGACTGAGTCTCCCTCTGTACCTAGGCTGGAGTGCAGTGGCACAATCTTGGCTCGCTGCAA
CCTTCACCTTCACCTCCCAGGTCGAAGCGATTCTCTGCCTCAGTCTCCCGAGTAGCTGGGATTACAGGCGTGC
GCCACCAATCTGGCTATTTTTTATTATTATTATTTTGGAGTAGAGATGGGGTTTCACCATGTTGGCCAGACTGG
TCTTGAACCTCTTGGCTCAAATTATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCA
TGCCCAGATGACAAGACTAATTTTTATCCCTTTGGTTTATTGGCTACAACATCTTCTTGAATCAGAGGTGAAT
TTTTCTTACCTTGGGATGCCTGAGACTAGGGGAGTATAGAATCCAATTGGTAATTAAGGCATCTTCTGCTCC
TGATCAGAAGGGCAGGTTAGTTGGGAGAGGTCAGATGGCACAACAGAAGTCACCTTGTAAAGTAAGGCAAAGACTT
GAAGGCATTAGCGTTTCTCATTACTAGGTCAATAACCTGAGGGAAATCAATGGCTTTTGGCGCTCTACCTCTTGT
GTATCTCTTTGACTTTTCTTCTCTGTCTAGGGCATTCTGAACTTGTCAATCAGGGACAGGCATTAGAGCCCAA
ACAGGATGCTTTCCAAGGCCAAGAAGCAGCAGTAATGATGGATCAGAAGGCAGGATTATATGGACAGACATACCC
AGCACAGGGGCCCTCAATGCAAGGAGGCTTTTCATCTCAGGGACAATCACCATCTTTAACTCTATGATGAATCA
GATGAACCAGCAAGGCAATTTTCTCTCCAAGGAATGCACCCACGAGCCAACATCATGAGACCCCGGACAAACAC
CCCCAAGCAACTTAGAATGCAGCTTCAGCAGAGGCTGCAGGGCCAGCAGTTTTTGAATCAGAGCCGACAGGCACT
TGAATTGAAAATGAAAACCTTCTGCTGGTGGTGTGCGGTGATGAGGCCTATGATGCAGCCCCAGGTGAGCTC
CCAGGAGGGTTTTCTTAATGCTCAAATGGGCGCCCAACGGAGGAGAGAGCTGCTAAGTCATCACTTCCGACAACA
GAGGGTGGCTATGATGATGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA
GCAACAGCAACAGCAACAGCAGCAACAGGAGCAACCCAGGTCTTCAGCCACCTCCTAATGTGACTGCTCCCCC
AGCATGGATGGCTTKYGGCAGGACCCACAATGCCACAAGCTCCTCCGCAACAAGTTTCCAATATCCAACCCCAAA
TTATGGGAATGGGGACCAACCAACAAAGATCCAGCCTTTGGGTGCGAGTGTCTAAGTCTCCCAATGCAATGATGT
CGTCAAGAATGGTCCCTCCCAGAAATCCCATGATGCAACACCCGCGAGGCTGCATCCATCTATCAGTCCCTCAGAAAT
GAAGGGCTGGCCATCAGGAAATTTGGCCAGGAACAGCTCCTTTTCCAGCAGCAGTTTGGCCACCAGGGGAATCC
TGCACTGTATAGTAATGGTGCACATGAATGGCAGCAGTGGTCACATGGGACAGATGAACATGAACCCCATGCCAT
GTCTGGCATGCCTATGGGTCTGATCAGAAATACTGCTGACATCTCTGCACCAGGACCTCTTAAGGAAACCACTG
TACAAATGACACTGCACTAGGATTATTGGGAAGGAATCATTGTTCCAGGCCATCCATCTTGGGAAGAAAGGACC
AGCTTTTGGAGCTCCATCAAGGGTATTTAAGTGTATGTCATTGAGCAGGACTGGATTTAAGCCGAAGGGCAATA
TCCAACGTGTTTTTCCCCCTCCTTCTGTGTATCATGGTGTTCAAAACAGAAATGTTTTTGGCATTCCAC
CTCCTAGGGATATAATTCTGGAGACATGGAGTGTACTGATCATAAACTTTTGTGTCACTTTTTCTGCTTGC
TAGCCAAAATCTCTTAAATACACGTAGGTGGGCCAGAGAACATTGGAAGAATCAAGAGAGATTAGAATATCTGGT
TTCTCTAGTTGCAGTATTGGACAAAGAGCATAGTCCAGCCTTCAGGTGTAGTAGTCTGTGTGACCCCTTGTG
CAGTGGAAATTGGTGATTCTGAATTGTCCTTTACTAATGTTGTTGAGTTGCTCTGTCCCTATTATTGGCCTAGCC
TTTCTCCTAATGGGGTTTTTCATTGGCATTTCATGTCCTGTAAACTTCACCTCCAGGAACGTGCATGGATGTCC
AAATGGCTTTGCAGAAAGGAAATGAGATGACAGTATTTAATCGCAGCAGTAGCAAACCTTTTACATGCTAATGTG
CAGCTGAGTGCACCTTTATTTAAAAGAATGGATAAATGCAATATTCTTGAGGTCTTGAGGGAATAGTGAACACA
TTCTTGGTTTTTGCCTACACTTACGTGTAGACAAGAACTATGATTTTTTTTTTAAAGTACTGGTGTACCCCTT
TGCCATATATGGTAGAGCAATAATGCTTTTTTAAAATAAACTTCTGAAAACCCAAGGCCAGGTACTGCATTCTGAA
TCAGAATCTCGCAGTGTCTGTGAATAGATTTTTTGTAAATATGACCTTTAAGATATGTATTATGTAAAATA
TGTATATACCTTTTTTTGTAGGTGCACAGCGXCTCATTTTACAGAGTTTGTGAAGCTAAATATTTAACATTGT
TGATTCAGTAAGCTGTGTGGTGAGGCTXCCAGTGGAGAGACATCCCTTGACTTTTGTGGCCTGGGGGAGGGGT
AGTGTCCACAGCTTTTCCCTCCCCXCCCCCAGCCTTAGATGCCCTCGCTCTTTTCAATCTCTTAATCTAAATGC
TTTTTAAAGAGATTATTGTTTAGATGTAGGCATTTAATTTTTTAAAAATTCCTCTACCAGAATAAGCACTTT
GTTAATTTGGGGGGGAGAATAGATATGGGGAGAAAAACTTAAAAAAAATCAGGAATTAAGGAGCGAGCA
ATTTGAAGAGAACTTTTGGATTTTAAAGCAGTCCGAAATAATAGCAATTCATGGGCTGTGTGTGTGTGTATGT
GTGTGTGTGTGTGTGAATGTTTAAAGTATGTTACCTTTTCATCCCTTTAGGAGCGTTTTAGATTTTGGTTGC
TAAGACCTGAATCCCATATTGAGATCTCGAGTAGAATCCTTGGTGTGGTTTCTGGTGTCTGCTCAGCTGTCCCT
CATTTACTAATGTGATGCTTTTATTATGTCCCTGTGGATTAGAATAGTGTGAGTTATTCTTAAGTAACTCAGT
ACCCAGAACAACAGTTTTTACTGTGATTCAGAGCCACAGTCTAACTGAGCACCTTTTAAACCCCTCCCTCTTCTG
CCCCTACCCTTTTCTGCTGTGGCTCTCGGAATTC

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FIGURE 918

MMDQKAGLYGQTYPAQGPPMQGGFHLQGQSPSFNSMMNQMNQQGNFPLQGMHPRANIMRPRNTNTPKQLRMQLQQR
LQGQQFLNQSRQALELKMENPTAGGAAVMRPMMQPQVSSQEGFLNAQMGAQRRRELLSHHFQQQVAMMMQQQQQ
QQQQQQQQQQQQQQQQQQQQQQQQEQPQVFSPPPNVTAPPAWMAXGRTHNATSSSATSFQYPTPNYGNGDQPTKIQ
PLGRVSKSSQCNDVVKNGPSQNPMMQHPQAASIYQSSEMKGWPSGNLARNSSFQQQFAHQGNPAVYSMVHMNGS
SGHMGQMNMPMPMSGMPMPDQKYC

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FIGURE 919A

ATTTCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCGACAGAACGTTGGGCCTTG
CCGGCTGTCGGTATGTCGCGACAGAGCACCCTGTACAGCTTCTTCCCAAGTCTCCGGCGCTGAGTGATGCCAAC
AAGGCCTCGGCCAGGGCCTCACGCGAAGGCGGCCGTGCCGCCGTGCCCGGGGCTCTCCTTCCCGAGGCGGG
GATGCGGCCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTGGTT
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC
GAGAAAGGGAAATCAGTCCGTGTTTATGTACAGTTTTTGGATGACAGCCCAACAAGGGGCTGGGTTAGCAAAAGG
CTTTTAAAGCCATATACAGGTTCAAAATCAAAGGAAGCCAGAAAGGGAGGTCATTTTACAGTGCAAAGCCTGAA
ATATGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAGAA
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTAAGCCAGACACTAAGGAG
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT
GCTCGAAAGCGGAAGAGAATGGTGAAGTGGCTCTCTTAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA
GCCACCAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTCTCTGCCCTCAAAATTCT
GAATCCCAAGCCACGTTAGTGGAGGTGGTGTGACAGTAGTCGCCCTACTGTTTGGTATCATGAACTTTAGAA
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGCCTGATCACCCTGATTTTGGATGATCTACACTC
TATGTGCTGAGGATTTCTCAATTCTGTACTCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTTT
GATCTTGTCTGTTTACAAGGTGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA
CTGGGCTGGTATTATGAAAGGCAACTGGGCCATTCTGGCTTTCTGAAATTGCATTTGGCCGTATTTCAGAT
TCCCTGGTGCAGAAGGCTATAAAGTAGCAGAGTGGAAACAGACTGAGACTCCAGAAATGATGGAGGCAGATGT
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAAGGAGGAGATCTGTAGGATCATTACCAAGGGTACA
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAGAG
GAAGATTCTTCTGGCCATACTCGTGCATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT
CAGTTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCAGTACAAGTTTTATTT
GAAAAAGGAAATCTCTCAAAGGAACTAAAACAATTTAAAGAGTTCATTGTCCTGTTCTCTTCAGGAAGGTCTG
ATACCCGGCTCCCAGTTTTGGGATGCATCCAAAACCTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGAAAAG
CTAAGTGATGGCATTGGGGTGTGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGCTTCTACCTCAAAAAATGCCTTATT
GATCAGGAGCTTTTATCAATGGCTAATTTGAAGAATATATTCCCTTGATTCTGACACAGTCAGCACTACAAGA
TCTGGTGTATCTTACCAAAGCCTATCAACGAATGGTGTAGATGCAGTGACATTAAACAACCTTGGAGATTTTT
CTGAATGGAACAAATGGTTCTACTGAAGGAACCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG
CGGCTCCTAAAGCAATGGCTTTGTGCCCCACTCTGTAAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA
GACCTCATGGTTGTGCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA
CTCAGTAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCCAGACAGCAGGGCTATAATGTATGAA
GAACTACATACAGCAAGAAGAAGATTATTGATTTTTCTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAATTT
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAAATCCTTAAGCAGGTCTCTCTGACAGACAAA
AATCCTGAAGGTGCTTTTTCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT
CGAAAGACTGGACTTATTACTCCCAAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGTGACATAAGAGAA
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG
ATTGGTAGGAACCGTTACCAGCTGGAAATTCCTGAGAAATTCACCACTCGCAATTTGCCAGAAGAATACGAGTTG
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATAACTTTGATAAAAATTACAAGGAC
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTGGATGTTTTACTGTGCTGGCTAACTATAGTCGAGGGGGTGAT
GGTCTATGTGTGCGCCAGTAATCTGTTGCCGGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAATATGGGGGGCAAGTCTACGCTTATGAGACAG
GCTGGCTTATTAGCTGTAATGGCCAGATGGGTTGTTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT

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FIGURE 919B

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTTGAATTAAGTGAA
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA
GAAAATGAATGTGAAGACCCCAGCCAGGAGACTATTACGTTCCCTCTATAAATTCATTAAGGGAGCTTGTCTAAA
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCCAGAGGAAGTTATTCAAAAGGGACATAGAAAAGCAAGA
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTGGGAAGTTTGCTGGCTAGTGAAAGGTCAACTGTAGAT
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAAATGA

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FIGURE 920

MSRQSTLYSFFPKSPALSDANKASARASREGGAAAAAGASPSPGGDAAWSEAGPGPRPLARSASPPKAKNLNGG
LRRSVAPAAPTSCDFSPGDLVWAKMEGYPWVPCLVYNHFFDGTFFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP
YTGSKSKEAQKGGHFYSAPKEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVEGTTYVTDKSEEDNEI
ESEEEVQPKTQGSRRSSRQIKKRRVISDSESDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR
KRMVTGNGLKRRSSRKETPSATKQATSISSETKNTLRAFSAQNSSESQAHVSGGGDDSSRPTVWYHETLEWLKE
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKIFYELYHMDALIGVSELGLV
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQTY
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHC SRFR TLVAHYPPVQVLF EKGN
LSKETKTIKSSLSCSLQEG LIPGSQFWDASKTLR TLLEEEYFREKLSDGIGVMLPQV LKGMTSESDSIGLTPGE
KSELALSALGGCVFYLKKCLIDQELLSMANFEEYIPLDSDTVSTTRSGAIFTKAYQRMVLDVATLNNLEIFLNGT
NGSTEGTLLERVDTCHTPFGKRLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI
HNVGSP LKSNHPDSRAIMYEETTSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG
RFPDLTVELNRWDATFDHEKARKTGLITPKAGFDS DYDQALADIRENEQSLLEYLEKQRNRIGCRTIVYWGIGRN
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAEERRDVSLKDCMRRLFYNFDKNYKDWQSA
VECIAVL DVLLCLANYSRGGD GPMCRPVILLPEDTPPFLELKSRHPCITKTFFGDDFIPNDILIGCEEEEQENG
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKCRTLFS THYHSLVEDYSQNVAVRLGHMACMVENEC
EDPSQETITFLYKF IKGACPKSYGFNAARLANLPEEVIQKGRKAREFEKMNQSLRLFREVLASERSTVDAAV
HKLLTLIKEL

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FIGURE 921

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGTCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCCGCCGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCAATGAAGTTCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTCTTTGTCAACAACACTATCCCTCCCCTAGTGTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCCTACAGTAATGAGAGTGTCTATGGGAAATGAGTGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGGCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCCCTGAGATTTAATTTTGTGCACTTTCATAGAAAG
GTCCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGTACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTTCTCCCA
TCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCCGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAAATAGGGGTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGT
TAAATAGCATTAAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAAATTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAAGTAGATTA
TCTATACCTCTCACTCATTCAAGATTCTCGCTCCCATGCTGTCTGCCCTTCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAATGAAAAGGGTTCTTCTCTTGGGGGAAATCTGTGTGTGAG
TTCTGTGAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTGTCAGGCCAAG

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FIGURE 922

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRKYLPSDLTDGQFYLLIRKRIHLRPEDA
LFFVNN TIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

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FIGURE 923

TGTCAAAGCCTGCACACGAGACCCCCGTGGGCCAGGACTGACTTCTCTCCACACAGGGCTGGGCGGGGCAAGC
AGGAAGGAGCCTGTTACAGTCAAGGTGACGCATCCTTGCCGGGCCAGCCGAACAGCAGCTGGGTGCGCAAGCGA
CAGGAGCACGGGTATCTTTTCCCCAGAGGCGTCGGAATGACCTGTGCCACCCAGAGCCCGCGGAGCTGAGCAG
CGGGGAGACGGAAGAGTTACAGAGGATCAAGTGGCACCGAAAGCAGCTCCTGGAGGACATCCAGAAGCTGAAGGA
TGAGATTGCAGATGTGTTTGGCCAAATCGACTGCTTCGAGAGTGGCGAGGAGAGCCGGATGGCCCAAGGAGAA
GGAGCTGTGTATTGGGCGCAAGAAGTTCAACATGGACCCCGCCAAAGGTATCCAGTATTTTATTGAGCACAAGCT
GCTGACCCCTGACGTCCAGGACATTGCACGGTTCCTGTATAAAGGCGAGGGCCTCAACAAGACAGCCATTGGTAC
CTACCTGGGGGAGAGGGATCCCATCAACCTGCAGGTCTCCAGGCCTTCGTGGACTGCCACGAGTTCGCCAACCT
CAACCTCGTCCAGGCCCTCAGGCAGTTCCTGTGGAGCTTCGGCTGCCGGGCGAGGCCCAGAAGATAGACCGGAT
GATGGAGGCCTTTGCCACTCGATACTGCCTCTGCAACCCAGGCGTCTTCCAGTCCACAGACACCTGCTACGTGTT
GTCTTCTCCATCATCATGCTCAACACCAGCCTCCACAATCCCAACGTCCGGGACAGGCCGCCTTTTCGAGCGCTT
TGTGTCCATGAACCGCGCATCAACAATGGTAGCGACTGCCCGAGGACCAGCTGCGGAACCTCTTCGACAGCAT
CAAGAGTGAGCCATTCTCCATCCCTGAGGACGACGGCAATGACCTCACTCACACCTTCTTCAATCCAGACCGGGA
GGGTGGCTGCTCAAGCTAGGGGGCCGCGTGAAGACGTGGAACGCGCTGGTTCATCCTGACCGACAACCTGCCT
CTACTACTTCGAGTTCACCACTGACAAGGAGCCACGGGAATTATACCTCTTGAGAACCTCTCGGTGCAGAAGGT
GGATGACCCCAAGAAGCCATTCTGCCTGGAGCTCTACAACCTAGCTGCCGAGGCCAGAAAATCAAGGCCTGCAA
GACCGATGGCGACGGCAGGGTGGTGGAGGGCAAGCAGCAATCGTACCGCATCTCAGCCACCAGTGCCGAGGAACG
TGACCAGTGATCGAGTCCATCCGAGCCAGCATACCCGTGTCCCTTCTACGACCTGGTCTCTACTCGGAAGAA
GAAGATTGCCAGCAAGCAGTGAAGATTCTTGGAGGTGGCACTGGGGCTGGTCACCTGAGAGTCCCATCGCCTGC
AGCACCTGGAGACCCACCTCCCACCCAGTGCATCTTTTGGGCCACAGACATCATTGCTGTTCCCGTTACCTC
GAGCTGACTCTAGAGGGGAAGGCAGAGCTCAGGAGGGTGGGTGGGAGCTGCAGTGGGCTCAGAGTCCAGCAATGA
GGCCCCCTGGCCTGGGCACCCAGCTGCAGGCCCTGCCCTACGTGCACTACAGGAAGGGGTGAGGAGAGCAGCCA
GAGGAAAACCAGCCCCAGAATGCTGCAACTTCTCTTCTCTCTGGACTTCGGTGTCTCGGCTCTGAAGGCGCTCT
CTGCACTTAGATGCTGTCAGCCCTCAACGTAGGAGGGGCGTGGGGTCCCTAAGTGATTCTTCTCCCTGGCAAGG
CTCTTCTTTTTCAGGGATATCTCTGCCAACCTTCCCTGTCTCGGGTGGGGTGGGCCCTCTCTGCTGAGAG
AGCTCAGCACACACAGCTCAGACCCACGGACAGGACCCCGGGACAGAACCCCGGGAGCACTGCCCTAGGAGCC
TGGACCCACAGAGCTCAGTCCCAGCTCTGCCTCTGACTCGCTGTGTACCCTCTGCCAAGTCATGCCATTCTCTA
GTTCTTGCAAACTGCAGTGTGTTGGACTAGAAACGTATTGGCCCCCTGCTAGCCCTGTGCTCCAGCTTCCAGCTGG
AGATGGCAGCCGTTATTTGCGGAGCCAGGCTGACTCCGGATTCAACGTGTCTGGGAGAGAAAAGCAGTATAGA
CTCCACCTTCCAGGATGTCCATTTTCGGGGAGAGGAGCAGGTGGGACCCTCAAGAAAATGACGGAGAACATCCCAG
ACAGATGGGACTCAAGCAGGATGGGTGCTATATCCAAGAAGCCAAGAAGGGAGAGTTTCGTGCACTGTGGTTAAC
AGGAGGGCCGCTGGAGGCAGTGGCTGAGCCAGAAAGTAACACAGAGCTCATGCTTGAGAGATAGAGTCTTGGC
CATGGCTTCTGCAAGACCACTGACGAGCAGTCCCATGGTGATAAAGGGCAGCCCGGCGGGTCCCAGCATCTCG
AGACCTCTGCAGAAGTATTATCAGAGTAGAGCTGACTTCCAGTACCCGGGCAGCCAGCTCTGTCTCCAGGGAGG
CCTGGCCTGGAGGAGGAGTCCACTAACAGGAAACACTTCTCACCCCTCACACAGGCCAGGGGAGCCCTGGAG
GGAAATTCTTGGCAGGGGAACAGGAAATGTGGTGCCTCTGCCCACTGCCAGCTGAGTGGGCAAGGAAGCAG
GTGGATCCCCCAGAAGGAACCGCAGCTCGCGAGGCACCTCTCTCGTCCCCACCCACCCACATTTGCACACCT
TCCACAGGGTCAGGATGGAGTAGCTGCCTTGCAGGTGGTGAGACTCCTGTCTCTGGAGGTCTGCAAGCACTGGT
AGTGATATTGCAGCAGACAAGGTCTGGGTGGGCGTCTGCAGGAGGAGACCTTGTGGGACATCTGAGGACATCCG
CAGATTCTTGTGACCTGTGAACTAGGCCCTGCCTCTGTACCTCATTGGTCCATGAAGGAGCAGCCAGGGGTGG
TGAAGGAGCACTGGGCTAGGGGTAGGGGTAGAGATTCTGTCTCTGCTCTGGGATGCACTGGCTACTCCCTTA
GTCTACTCCCTTCCCTCTCTGTCTCTCAGCTTCTCCATCATGGAGGAGATGGGATCATGGATTTTCTGGGCAT
AAGTGGCTGTTCTGGGAGTCATTCCAAAGAGAGAATAAACTCTGTATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 924

MDLCHPEPAELSSGETEELQRIKWHRKQLLEDIQKLKDEIADVFAQIDCFESAEESRMAQKEKELCIGRKKFNMD
PAKGIQYFIEHKLLTPDVQDIAREFLYKGEGLNKTAIGTYLGERDPINLQVLQAFVDCHEFANLNLVQALRQFLWS
FRLPGEAQKIDRMMEAFATRYCLCNPGVVFQSTDTCYVLSFSIIMLNTSLHNPVNRDRPPFERFVSMNRGINNGSD
LPEDQLRNLFDSIKSEPFSSIPEDDGNDLTHTFNPDREGWLLKLGGRVKTKRRWFILTDNCLYYFEFTTDKEPR
GIIPLENLSVQKVDDPKKPFCELELYNPSCRQKIKACKTDGDGRVVEGKHESYRISATSAEERDQWIESIRASIT
RVFFYDLVSTRKKKIASKQ

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FIGURE 925

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGCGGTGGGTCCCCGACCTGCGAGACAGGTTTGAAGCCCCCG
CTGCGCCAGTCCGTGCGGACCGCGAGGCCGCGGGCGGGTGGAGGCGCGTCTCCGGCACGATGAAGGATTGGGG
GCAGAGCACTTGGCAGGTCATGAAGGGGTCCAACCTTCTCGGGTTGTTGAACGCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAAGGGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACCTTTTTGGATCTTGCACTGAAACTTTGTCTGGCT
GTCAATATTTTGGACAGGTTCTTGGCTCTTATGAAGGTGAAACCTAAACATTTGTCTTGCAATTGGAGTCTGTTCT
TTTTTGCTGGCTGCTAGAATAGTTGAAGAAGACTGCAATATTCATCCACTCATGATGTGATCCGGATTAGTCAG
TGTAATGTACTGCTTCTGACATAAAACGGATGGAAAAATAATTCAGAAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAAACTTTTTGCACTTATACCATACTATTATACTTTGTCATACTTCAGAAAGGAAAGAAATACTG
AGCCTTGATAAACTAGAAGCTCAGCTGAAAGCTTGCAACTGCCGACTCATCTTTCAAAGCAAACCATCTGTA
TTAGCCTTGTGCCTTCTCAATTTGGAAGTGGAACCTTTGAAATCTGTTGAATTACTGGAATTTCTTTGCTAGTT
AAAAACATTCCAAGATTAATGACACTGAGTTCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACAGATCTTAAGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTC
CACAACAGCTACTATAGTGTCTCTGAGCTGCCAACGATACCTGAGGGGGTGTGTTTGTGAAAGTGAAAGTGAG
GACTCTTGTGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCTCCTCCAGTGATCAAGAGTGACCTTC
TTTTTCAACTTCAAAGTGGCACAACACTGTGCTTTCCATCTTAGAAATCTGATTGTTCTGTCAGAAATTTATATT
TACAGGGTTTCAAAGCAATAAATGGGGGAATAGGTAGTTTCTGGTTTAGCCCCATCTAGTCAGGAATTAATAT
ACTGGAATACCTACCTTCTATTTGTTATTTCAGATCAGATCTGGCCTATTTTCATATTTATCCTAAGCCATCAAAT
GGGGTAGTGCCCTCTTAAACCATTAAACAGTACTTTAGACATTGGCACTTTATTTTCTCGTAGATCTTTAGCTACT
TTGGGGAGGAGGGAAGGTGCTGATACCTTCAATTTGTTACTTTTCAAGATTTTAAAAATAACTAGTGTAGCTTA
TCTTAAACATTTTATAAAACCTTCAGATGTCTTTAAGCAGATTGGAAGTATGCAAGTGCTTCTTAGCAGGGACA
GTGGATAATCCTTAATGGTTTATCATAGATTTACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGT
CAAACACATTTTGTGTTTTGTTTTTAAATGATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGG
AATTATAATATTGACATTTCTGTGATTTTTATATATGTAATGTCTTAATTGAGATTTGTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTCTTAGTTTTTCATTCTTATTGCCCCAAGTATTGTCAAACATATGGTATTATTTAATGTTACTT
TAAAAATCCATAATCTGCTAGTTTTGCATGTACTTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTAT
GGAATTGATAAATGTTGATCTGGTGTAGTATATTTTATCCGCATTTTCTTATATTAAAAATGTTCTGCATGATT
ACATTTTATTTGCCTTTGT

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FIGURE 926

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCTE
TFVLAVNILDREFLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMEKIISEKLH
YELEATTALNFLHLYHTIILCHTSEKILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLE
ILLLVKKHSHKINDTEFFYWRELVSKCLAEYSSPECCKPDLKKLVWIVSRRTAQNHLNSYYSVPELPTIPEGGCFD
ESESEDSCEDMSCGEESLSSSPSDQECTFFNFKVAQTLCFPS

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FIGURE 927

CGCAGGCAGGGATACAGTTCCTGCAAGGGGTCCCGGGGGGCGCGGGAGGCGCAGGACGCTAGGCTCTGCCGTCAG
CCCGCAACAGCGCTCAGTCCAGGGAGGGAGGCCCCGGGTGGGGGGCAGCCGTAAGCCCCGCTCAGCGTGCAGCCA
CCGGGGACTTGCGCGGCCGTGGCACCGCTGGAGGGGGCGGCCCTGGGGCTGGGGCTGCCCGGCGGCGCCGCGACCG
CCTTCCTTCGCTGCGTCTGCCCCGCCCCACGCCTCGCTCACCGCCGCGCTTCTCCCTGCCCCGCAGCGCGCAGG
GACCATGTCGGCGGAGACCGCGAGCGGGCCCCACAGAGGACCAGGTGGAAATCCTGGAGTACAACCTCAACAAGGT
CGACAAGCACCCGGATTCCACCACGCTGTGCCTCATCGCGGCCGAGGCAGGCCTTCCGAGGAGGAGACCCAGAA
ATGGTTTAAAGCAGCGCCTGGCAAAGTGGCGGCGCTCAGAAGGCCTGCCCTCAGAGTGCAGATCCGTCACAGACTA
AGGAGATGGCAGGCATTGACAGCTTCACTCCATGAAGGCCATCTCTGTTTCTCTCCTCCGCTTAACCAAGCTGTT
GTGGTTTTTTCAGCATAGTGTGTATGTTCCATTGCTAGCTGTCTGCTGTTTAAACACAGTGTGTATTTTTTTTC
TAAATGTACATAATTAGAAAAGAAAATAACAATAGGAAGCTATGTGTATCTTCTGTGTAAAGCAGTGGCTTCACT
GGAAAAATGGTGTGGCTAGCATTTCCTTTTGAGTCATGATGACAGATGGTGTGAAAACCATCTAAGTTTGCTTTT
GACCATCACCTCCCAGTAGCAATTTGCTTTTCATAATCCATTTAGCAATCCAGGCCCTCTGTTGAAAAGATAATATG
AGGGAGAAGGGAACACATTTCTTCTGAACTTACTTCCCTAAGTCACTTTCCTTATGTATCATCTAATACAATGA
TGGTTGAGTGAAAAATACAGAAGGGGTGTTTGAGTATTAGATTTTCAAAAACACTTCCTTGGAATATAGCTGCAT
TAACTTGGAAGAAGCCTGTTGGGCCAGAAGACAGAACTCCAAGTGGCAAAAAAGCAAGCATCTAAGAAAAAAA
ACCACCAAAGTTCTTGAATTTACTATATTTAAATGCATTGGTTAAGTTTATTTTGCTAAATAAAGTGAAGTCTGCTT
TTGTCTCTAAATGATATTCTAAATAAACCTTAAGTCTTTTGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 928

MSAETASGPTEDQVEILEYNFNKVDKHPDSTTLCLIAAEAGLSEEETQKWFQRLAKWRRSEGLPSECRSVTD

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FIGURE 929

CACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTAT
TTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAG
GCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACC
GGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAA
TATGTTCCCTCGTGCCATCCTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCTTTTGGCCAG
ATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAG
GGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTC
CAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCTGGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAA
TACCTGATCGCATCATGAATACCTTCAGTGTGGTGCCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTAC
AATGCCACCTCTCCGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTAT
GATATCTGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATG
AGTGGTGTACACACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTC
CCCTTCCACGCTCCATTTCTTTATGCCTGGCTTTGCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCT
CTCAGAGTCCCGAACTCACCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTGACCCCGCCACGGC
CGATACCTCACCCTGGCTGCTGTCTCCGTGGTCCGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTG
CAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCT
CGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAGGAGCTTTCAGCGCATCTCGGAG
CAGTTCAGTGCATGTTCCGCCGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTC
ACCGAGGCTGAGAGCAACATGAACACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAG
GAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCTAAGGCAGAGCCCCATCACCTCAGGCTTCTCAGTTCCCTTA
GCCGTCTTACTCAACTGCCCCCTTTCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTTTTTTGTTTTTT
CTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTGTTGTTGAATGTCTCCT
CTCTCTTTCCACTCTGGGAAACCTAGGTTTCTGCCATTCTGGGTGACCCTGTATTTCTTTCTGGTGCCCATTTCCA
TTTGTCCAGTTAATACTTCTCTTAAAAATCTCCAAGAAGCTGGGTCTCCAGATCCCATTTAGAACCAACCAGGT
GCTGAAAACACATGTAGATAATGGCCATCATCTAAGCCCCAAAGTAGAAAATGGTAGAAGGTAGTGGGTAGAAGT
CACTATATAAGGAAGGGGATGGGATTTTCCATTCTAAAAGTTTGGAGAGGGAAATCCAGGCTATTAAAGTCACT
AAATTTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTC
CCTCCAAGCTCTACTCTGGAGGAGTCTGTCCACTCTGTCAAGTGGAAATCCTTCCCTTTCCAACCTACCTCCCT
CACTCAGCTCCTTTCCCTGATCAGAGAAAGGATCAAGGGGGTGGGAGGGGGGAAAGAGACCAGCCTTGGTCC
CTAAGCCTCCAGAAACGTCTTCTTAATCCCCACCTTTTCTTACTCCCCAAAAAAGATGAACACCCCTGACTCTGG
AGTGGGTATATCTGCCACATCAGTGTGTTGAGTCAGTCCCCAGAGGAGAGGGGAACCCCTCCTCCATCTTTTTGCA
ACATCTCATTTCTTCTTTTGTGTTGCTTCCCCCTCACACACTTGGTTTTGTTCTATCCTACATTTGAGATTT
CTATTTTATGTTGAACCTGCTGCTTTTTTTCATATTGAAAAGATGACATCGCCCCAAGAGCCAAAAATAAATGGG
AATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 930

MREIVHIQAGQCGNQIGAKFEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKNNM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEAAA

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FIGURE 931

GAATTGAACCAACCCATTTTCTTTCTTAGCCAAATCACCAAAATGTCCAGTTAGAACAAGAATTTAGCATTCTGC
AAAAGAAGTTAACAGCTGAGATAACGAGGAAATATTCTGAAATGGATCCCAAATATTTTCATCTTAATTTTGT
GTGGACACCTGAACAATACATTTTTTTCAAAGACAGAGACAATTACAACAGAGAAGCAGTCACAGCCTACCTTAT
TCACATCATCAATGTACAGGTATTGGCTAATTCTCAAAACACAACAGGGAATCCTTTGGGTCAACCAACACAAT
TCAGCGACACTTTTTCTGGACAATCAATATCACCTGCCAAAGTCACTGCTGGACAACCAACACCAGCTGTCTATA
CCTCTTCTGAAAAACCAGAAGCACATACTTCTGCTGGACAACCACTTGCCTACAACACCAACCAACCAACCA
TAGCCAACACCTCCTCCCAGCAAGCCGTGTTACCTCTGCCAGACAACCTACCATCTGCCCGTACTTCTACCACAC
AACCACCAAGTCAATTTGTCTATACTTTTACTCAACAATCATCATCTGTCCAGATCCCTTCTAGAAAAACAAATAA
CTGTTTCATAATCCATCCACACAACCAACATCAACTGTCAAAAATTCACCTAGGAGTACACCAGGATTTATCTTAG
ATACTACCAGTAACAAACAAACCCCAACAAAAACAATTATAATTCAATAGCTGCCATACTAATTGGTGTACTTC
TGACTTCTATGTTGGTAGCTATAATCATCATTGTACTTTGGAAATGCTTAAGGAAACAGTTTTAAATGATCAAA
ATTGGGCAGGTAGATCTCCATTGCTGATGGAGAAACCCCTGACATTTGTATGGATAACATCAGAGAAAATGAAA
TATCCACAAAACGTACATCAATCATTTCACTTACACCCTGGAAACCAAGCAAAAGCACACTTTTAGCAGATGACT
TAGAAATTAAGTTGTTTGAATCAAGTGAAAACATTGAAGACTCCAACAACCCCAACAGAGAAAATAAAGATC
AAGTAAATGGTACATCAGAAGATAGTGCTGATGGTTCAACAGTTGGAAGTCTGTTTCTTCTCAGATGATGCAG
GTCTGCCTCCACCACCTCCCCTTCTGGATTTGGAAGGACAGGAAAGTAACCAATCTGACAAACCCACAATGACAA
TTGTATCTCCTCTTCCAAATGATTCTACTAGTCTCCCTCCATCTCTGGACTGTCTCAATCAAGACTGTGGAGATC
ATAAATCTGAGATAATACAATCATTTCCACCGCTTGACTCACTTAAGTGGCCCTGCCACCAGTAGATTTTATGA
AAAACCAAGAAGATTCCAACCTTGAGATCCAGTGTGAGGAGTTCTCTATTCTCCCAACTCTGATCAAGATCTTA
ATGAATCCCTGCCACCTCCACCTGCAGAACTGTTATAAATATTACAAGTGGCTTTTATAGCTGATCTCCATCCTC
AAATGACTCTTTTTCTTTTATATGTTAACATATATAAAATGGCAACTGATAGTCAATTTTGATTTTTATTTCAGGA
ACTATCTGAAATCTGCTCAGAGCCTATGTGCATAGATGAACTTTTTTTAAAAAAGTTATTTAACAGTAATCT
ATTTACTAATTATAGTACCTATCTTTAAAGTATAGTACATTTTACATATGTAAATGGTATGTTTCAATAATTTAA
GAACTCTGAAACAATCTACATATACTTATTACCCAGTACAGTTTTTTTTCCCTGAAAAGCTGTGTATAAAATTA
TGGTGAATAAACTTTTATGTTTCCATTTCAAAGACCAGGTGGAGAGGAATAAGAGACTAAGTATATGCTTCAAG
TTTTAAATTAATACCTCAAGTATTAAATAAATATCCAAGTTTGTGGGAATGGGAGATTAAATGCATGTTTGAG
AGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 932

MDPKYFILILFCGHLNNTFFSKTETITTEKQSQPTLFTSSMSQVLANSQNTTGNPLGQPTQFSDTFSGQSISPAK
VTAGQTPAVYTSSEKPEAHTSAGQPLAYNTKQPTPIANTSSQQAVFTSARQLPSARTSTTQPPKSFVYTFTQQS
SSVQIPSRKQITVHNPSTQPTSTVKNSPRSTPGFILDTTSNKQTPQKNNYNSIAAILIGVLLTSM LV A I I I I V L W
KCLRKPV LNDQNWAGRSPFADGETPDICMDNIRENEISTKRTS I I S L T P W K P S K S T L L A D D L E I K L F E S S E N I E D
SNNPKTEKIKDQVNGTSEDSADGSTVGTA V S S S D D A G L P P P P L L D L E G Q E S N Q S D K P T M T I V S P L P N D S T S L P P
S L D C L N Q D C G D H K S E I I Q S F P P L D S L N L P L P P V D F M K N Q E D S N L E I Q C Q E F S I P P N S D Q D L N E S L P P P P A E L L

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FIGURE 933A

AGTTTCCGGGCCCCGGGCTGCTCTCGGAGCCATGAGCTGCGGCCGCCCCCTCCCGACGTGGACGGCATGATCACC
CTCAAGGTGGACAACCTGACCTACCGCACCTCTCCCGACAGCTTGAGGCGCGTGTTCGAGAAGTACGGGCGCGTG
GGCGACGTGTACATCCCGGGGAGCCCCACACCAAGGCGCCCCGGGGCTTCGCTTTCGTCGGCTTTCACGACCGG
CGCGACGCCCCAAGACGCCGAGGCCGCCATGGACGGGGCGGAGCTGGACGGACGCGAGCTGCGGGTGCAGGTGGCG
CGCTATGGCCGCCGGGACCTGCCCCGAGCCGCCAGGGAGAGCCACGCGGCAGGTCCAGAGGCGGCGGCTACGGA
CGGCGGAGCCGAGCTACGGGCGGCGGAGCCGAGCCCCAGGCGGCGACACCGCAGCCGATCCCGGGTCCCAGC
TGCTCCAGGTCCCGCAGCCGATCTCGCTATAGGGGTTCTCGCTATAGCCGGTCTCCCTACAGCCGATCTCCTTAC
AGCCGGTCGCGCTACAGCCGCTCTCCCTACAGCAGATCTCGCTACAGGGAATCTCGCTACGGCGGATCTCACTAC
AGCTCATCTGGTTACAGTAACTCTCGCTACAGCCGATATCACAGCAGCCGGTCTCACTCGAAGTCTGGGTCTCTCC
ACTAGCTCTCGCTCTGCATCAACCTCCAAATCGAGCTCTGCGCGACGATCCAAGTCTCTCTCGGTCTCCAGGTCT
CGCTCGCGGTCCAGGTCTTCATCTATGACCAGGAGTCTCCCCGGGTATCCAAGAGGAAATCCAAGTCAAGGTCTG
CGATCCAAGAGGCCCCCAAGTCTCTGAAGAGGAAGGACAGATGTCTCTTAAGAAAATGATGCATCAGGAAGC
AACGTGATGGAGGACTTGGGGGAAAAGGATCACATACTCAGTCTATGGAAGCAACGTCCCTGGAAGAAGAGGCTG
CCTATTGAAAAGGTTGTGTACACTTTTCTACCTTTTGGCAGTTTGAAGCTTGCATCAGGTGGCAAAATTCAT
TCTAIGTGCCGTTTTGTGTTATTACATTTTATTGTAAGTCTAGGAGGTGAACGACCTAAGATTACGTTATTGGG
TTTGGATATTGAGGCAAAAATTTATTTTTATTCTATAGTGATGACTGTTTTGGTTTGAATGAACAGATTGGT
AACCTAATTTGTGGCTCTGACTTTTAAGGAAACGTGTGCAGCCATTACACACAGCCTAACGCTGTCAAGACAT
TGCTTCAACATTGCCTTCATTCTTAAACCTACAAAAGGTGGTGTAAATTAATATGGATAATTTTATTTACCT
CCAGGTCTAAAAGGTAGTGTGACCCAAATTTGTATAAGATTTTTCATGTGAAAGGACTGGGGTTTTAGCAAACA
CAGGTCTAATCTCTTTGTGTTTTGTGTCACCAGGCCCGGCTCGCTAGCAGTTGAGTGATGCTGGTTAGCTATTA
AGGTGGCCTGTGTCAGTGCAGAGTGTGAGCTGCTTCTGTTTTCTTCTGATTGCTCCTGGGGAAAAACAGCCTT
GTCTGAAGAACAAATGGCTGTCCAGTTTATTAATATGCCTGTCAACTGCATTCCAGTCAACCAGGCCCTTGCAG
ATAAATAATGGAGCATGCAGTGAGCACATCTAGCTGACGATAATCACACCTTTTCCCCCGTCTTTTCTGAAAAAT
TGTAATCTGATCATATCAACATGTATGAACTTAAATATGGAGAATGTTATGGAAGAAATAGTTTATAAGTTTG
TTAAGTACTTATAACATGGTTTTATCTTTTTGATTATTAATTTTTTACGCTAACCATTTGTTTCTGTAGTTAAAT
GTTTTCTTGGTGTATCTTTTTCTCAGAATAAAATTAGAACTTTTGATGGAAGTAGGTTGTTTTATTTTCTGTA
TGACTTTTGAATAATTTGTACTTTTGAGAAAATTATTAGCACCAAGTGTCTCATAAATATAATTTTTAAAAATC
CTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TCCCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCATGTTGTATACA
GTTTTCTTTTATTCAGTACAATCTTTTCATTTTTTAATTCAACTGTTTTGTTCAGAATGGGCTAAAGTGTGAA
TTGCATTCTTGTAAATATCCCCTTGCTCCTAACATCTACATTCCTTCGTGCTTTTGATAAATTGTATTTAAGTG
ATGTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATCTCTCAGACTGIGATATTGTGTAAATGTCTATCT
GCCCTGGTTTGTGTGAAGTGGGATGTTGGGGGTGTTGTGGTTATCTTACCTGGGGAAGTCTTATGTTTATCTT
GCTTTTCATGTGCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCA
CATTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACT
CCAAGTGCTATTGTACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATAT
ACATTTTCTTAAACACTTGCAACATTTTATTCAGTTGCTTTAGCTACAATTGCTTTGCTTTTTAAACCTTG
GCAATTGTGGCAAAATTATATTGCCCATTTTGTAGCAACTTATTTGCTCCCTTCCCCCATTTTTGTTTTAATA
GGGACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAAGTGTAAATGTGTGACCTGCTGTGG
TGACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTC
CTCTGTGTGACTGATAGAGCGTTGCTATTTTCAATTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGT
ATTGGTGTAGATAATCTAGTTGGGAATACTTTTAACTCTCACCTTCCCCCTTAACTAATATTCAATTTGGTTC
ATATGTTTAAAGACTTTAATTTACAAATTAATTTGCAATGGGAGCATTAGATTAGTTTATAGACTTAGGTGGG
TAGCAATGCCAGTAACTTAAATTACGTAACCTTCTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGT
GTTGGCATTATCAGTTGAAGTGTAAATACAAATGCTTCTTCCAATTAGTCTCTATGATGATTAGTTTCTAAAA
TTTATCTGAACACCATTAGAACTTGTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAACTGATGAC
AGACATAACTCATCTCCCGAGAACTTTTTTGTATTACAGTATCTAACATTTTGCTCCTCTTTTTTGGTTTTT
GCTGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATC

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FIGURE 933B

ATAATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGT
GGATTCCCTGCCCCAACCAACCGCATTTCGTGTGGATTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTT
TTTTCCTATTTTGTACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAAGGAGC
AAAGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTCAGCACGAGTAGATGGTAAACATTTA
AAGGGGAAAGGGGGGGTTTTGTTTAAATAGTAAATCAGTAAGTCACCTTCTAAATTTAAAGAAAACAAAATTGGAG
TTGAAGAATAAGTAGGTTTCCAATTGGCTATTGCCCCTTTTTTTTGA AAAAATAAACATTTTTTTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 934

MSCGRPPPDVDGMITLKVDNLIYRTSPDSLRRVFEKYGRVGDVYIPREPHTKAPRGFAFVRFHRRDAQDAEAAM
DGAELDGRELRVQVARYGRRDLPRSRQGEPRGRSRGGGYGRRSRSYGRRSRSPRRRHSRSRGPSCSRSRSRRY
RGSRYSRSPYSRSPYSRYSRSPYSRYSRYRESRYGGSHYSSSGYSNSRYSRYHSSRSHSKSGSSTSSRSASTSK
SSSARRSKSSSVSRSRSRSRSSSMTRSPPRVSKRKSKSRSRSKRPPKSPEEEGQMSS

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FIGURE 935

GGCACGAGGGGAGTGGAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAAATTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTCAATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAGTAAGTGCCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCTCCAAATAGTTTCTCCAGCGCAGG
TGGACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTCAGGACCAGGAAGGAGTGTTCTCCACCAG
CAATGCAGAGTGTGACTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
ACAAGGTCAAGAACTGACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
CTGTGACCCCTGGACAAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
CTGTGGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCTCTGTGACCCCGCCTGCCCTGCGAGAGAGCCAGG
ACACTCTCCGCAGATCATCTCTTCTTTCTTGCCTGACGTCGACTGCGTTGCTCTTCTGCTGTTCTTCTCTCAC
GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACCATTTATGAGACCAGT
ACAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGAGGAGGATGTGAAGTGTGAAA
TGGAAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTCCCCAACACACGTTCTTTCTAAATGCCAATGAGTTG
GCCTTTAAAAATGCACCACTTTTTTTTTTTTTTTTGACAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACACCTGACTAACTTTTTTGTGTTTTTGTGTTGGTAAAGATGGCATTTCACCATGTT
GTACAGGCTGGTCTCAAACCTCCTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTCCAGG
CCCGGCCAAAATAATGCACCACTTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATAACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACTATAATTATAATCAAATCAATGCAGGTTTGTTTTTGGTGCTAATATGA
CATATGACAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTCCGTGGGTTCTGTGATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCCTGAGTTTAGGGTCAAGGACAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAGAGTTCAAGTGTCTGTATATCCTATGGTCTTCTCCATCCTCACACCTTCTGCCTTTGTCTGCTC
TCCCTTTTAAGCCAGGTTACATTCTAAAAATTCTTAACTTTAAACATAATATTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAA

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FIGURE 936

MGNSCYNIVATLLLVNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR
KECSSTSNAECDCTPGFHC LGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNG
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIISFFLALTSTALLFLLEFLTLRF SVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFPEEEEGGCEL

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FIGURE 937A

ATGGCTGGCGGAGCCTGGGGCCGCTGGCCTGTTACTTGGAGTTCTCTGAAGAAGGAGGAGCTGAAGGAGTTCAG
CTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAAGACGAGTGGC
ATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCCCTCCATACCTGGGAG
CAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCCAGGAAGGGGAGGCCACTCTCCCTCATTCCCCTACAGCCCA
AGTGAACCCACCTGGGGTCTCCAGCCAACCCACCTCCACCGCAGTGCTAATGCCCTGGATCCATGAATTGCCG
GCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTGCCTGACACATCTGGACGCCGCTGGAGAGAA
ATCTCTGCCTCACTCTCTACCAAGCTCTTCCAAGCTCCCAGACCATGAGTCTCCAAGCCAGGAGTCACCCAAC
GCCCCACATCCACAGCAGTGCTGGGGAGCTGGGGATCCCACCTCAGCCAGCCTAGCACCCAGAGAGCAGGAG
GCTCCTGGGACCCAATGGCCTCTGGATGAAACGTGAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAG
AAATCAGAGAAAGGCAGGCCCCCATGGGCAGCGGTGGTAGGAACGCCCCACAGGCGCACACCAGCCTACAGCCC
CACCACCACCATGGGAGCCTTCTGTGAGAGAGAGCCTCTGTTCACATGGCCCTGGAAAAATGAGGATTTTAAC
CAAAAATTCACACAGCTGCTACTTCTACAAAGACCTCACCCAGAAGCCAAGATCCCCTGGTCAAGAGAAGCTGG
CCTGATTATGTGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCCAGGCCTGGATACCCAA
GAACCTCGCATAGTCATACTGCAGGGGGTCTGTGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC
TGGGGGAGAGGCCAGCTGTATGGGGACCGTTCCAGCATGTCTTCTACTTCAGCTGCAGAGAGCTGGCCAGTCC
AAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCCATAGACAGATCCTGTCT
AGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGACAGGAGCCGAGTTCTGAG
CTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGCTGGGGAAAACATACTTCCC
GAGGCATCCTTCTGTATCACGGCTCGGACCACAGCTCTGCAGAACCTCATTCTCTTTGGAGCAGGCACGTTGG
GTAGAGGTCTGGGGTTCTCTGAGTCCAGCAGGAAGGAATATTCTACAGATATTTACAGATGAAAAGGCAAGCA
ATTAGAGCCTTTAGGTTGGTCAAATCAAACAAAGAGCTCTGGGCCCTGTGTCTTGTGCCCTGGGTGTCTGGCTG
GCCTGCACTTGCTGTATGCAGCAGATGAAGCGGAAGGAAAACTCACACTGACTTCCAAGACCACCACAACCCCTC
TGCTACATTACCTTGCCAGGCTCTCCAAGCTCAGCCATTGGGACCCAGCTCAGAGACCTCTGCTCTCTGGCT
GCTGAGGGCATCTGGCAAAAAAGACCCTTTTTCAGTCCAGATGACCTCAGGAAGCATGGGTAGATGGGGCCATC
ATCTCCACCTTCTTGAAGATGGGTATTCTTCAAGAGCACCCCATCCCTCTGAGCTACAGCTTCATTACCTCTGT
TTCCAAGAGTTCTTTGCAGCAATGTCTATGTCTTGGAGGATGAGAAGGGGAGAGGTAAACATTCTAATTGCATC
ATAGATTTGGAAAAGACGCTAGAAGCATATGGAATACATGGCCTGTTTGGGGCATCAACCACAGTTTCTATTG
GGCCTGTTAAGTGATGAGGGGGAGAGAGATGGAGAACATCTTCACTGCCGGCTGTCTCAGGGGAGGAACCTG
ATGCACTGGGTCCCGTCCCTGCAGCTGCTGCTGCAGCCACACTCTCTGGAGTCCCTCCACTGCTTGTACGAGACT
CGGAACAAAACGTTCTTGACACAAGTGATGGCCCATTTGGAAGAAATGGGCATGTGTGTAGAAACAGACATGGAG
CTCTTAGTGTGCACTTTCTGCATTAAATTCAGCCGCCACGTGAAGAAGCTTCAGCTGATTGAGGGCAGGCAGCAC
AGATCAACATGGAGCCCCACCATGGTAGTCTGTTTCAGGTGGGTCCAGTCAAGATGCCTATTGGCAGATTCTC
TTCTCCGTCCTCAAGGTCACCAGAAACCTGAAGGAGCTGGACCTAAGTGGAACTCGCTGAGCCACTCTGCAGTG
AAGAGTCTTTGTAAGACCCTGAGACGCCCTCGCTGCCTCCTGGAGACCCTGCGGTTGGCTGGCTGTGGCCTCACA
GCTGAGGACTGCAAGGACCTTGCCCTTGGGCTGAGAGCCAACCAGACCCTGACCAGCTGGACCTGAGCTTCAAT
GTGCTCACGGATGCTGGAGCCAACACCTTTGCCAGAGACTGAGACAGCCGAGCTGCAAGCTACAGCGACTGCAG
CTGGTCACTGTGGCCTCACGTCTGACTGCTGCCAGGACCTGGCCTCTGTGCTTAGTGCCAGCCCCAGCCTGAAG
GAGCTAGACCTGCAGCAGAACAACTGGATGACGTTGGCGTGCGACTGCTCTGTGAGGGGCTCAGGCATCCTGCC
TGCAAACTCATACGCTGGGGCTGGACCAGACAACTCTGAGTGATGAGATGAGGCAGGAACCTGAGGGCCCTGGAG
CAGGAGAAACCTCAGCTGCTCATCTTCAGCAGACGGAACCAAGTGTGATGACCCCTACTGAGGGCCTGGATACG
GGAGAGATGAGTAATAGCACATCCTCACTCAAGCGGCAGAGACTCGGATCAGAGAGGGCGGCTTCCCATGTTGCT
CAGGCTAATCTCAAACCTTGACGTGAGCAAGATCTTCCAATTGCTGAGATTGCAGAGGAAAGCTCCCCAGAG
GTAGTACCGGTGGAACCTTGTGCGTGCCCTTCTCCTGCCTCTCAAGGGGACCTGCATACGAAGCCTTTGGGGACT
GACGATGACTTCTGGGGCCCCACGGGGCCTGTGGCTACTGAGGTAGTTGACAAAGAAAAGAACTTGTACCGAGTT
CACTTCCCTGTAGCTGGCTCCTACCGCTGGCCCAACACGGGTCTCTGCTTTGTGATGAGAGAAGCGGTGACCGTT
GAGATTGAATCTGTGTGTGGGACCACTTCTGGGTGAGATCAACCCACAGCACAGTGGATGGTGGCAGGGCCT
CTGCTGGACATCAAGGCTGAGCCTGGAGCTGTGGAAGCTGTGCACCTCCCTCACTTTGTGGCTCTCCAAGGGGGC
CATGTGGACACATCCCTGTTCCAATGGCCCACTTTAAAGAGGAGGGGATGCTCCTGGAGAAGCCAGCCAGGGTG

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FIGURE 937B

GAGCTGCATCACATAGTTCTGGAAAACCCAGCTTCTCCCCCTTGGGAGTCCTCCTGAAAATGATCCATAATGCC
CTGCGCTTCATTCCCGTCACCTCTGTGGTGTGCTTTACCACCGCGTCCATCCTGAGGAAGTCACCTTCCACCTC
TACCTGATCCCAAGTGACTGCTCCATTTCGGAAGGCCATAGATGATCTAGAAATGAAATTCCAGTTTGTGCGAATC
CACAAGCCACCCCGCTGACCCCACTTTATATGGGCTGTGCTTACACTGTGTCTGGGTCTGGTTCAGGGATGCTG
GAAATACTCCCCAAGGAACGGAGCTCTGCTATCGAAGCCCTGGAGAAGACCAGCTGTTCTCGGAGTTCTACGTT
GGCCACTTGGGATCAGGGATCAGGCTGCAAGTGAAAGACAAGAAAGATGAGACTCTGGTGTGGGAGGCCTTGGTG
AAACCAGGAGATCTCATGCCTGCAACTACTCTGATCCCTCCAGCCCGCATAGCCGTACCTTCACCTCTGGATGCC
CCGCAGTTGCTGCACCTTTGTGGACCAGTATCGAGAGCAGCTGATAGCCCGAGTGACATCGGTGGAGGTTGTCTTG
GACAAACTGCATGGACAGGTGCTGAGCCAGGAGCAGTACGAGAGGGTGCTGGCTGAGAACACGAGGCCAGCCAG
ATGCGGAAGCTGTTAGCTTGAGCCAGTCCTGGGACCGGAAGTGCAAAGATGGACTCTACCAAGCCCTGAAGGAG
ACCCATCCTCACCTCATTATGGAACCTCTGGGAGAAGGGCAGCAAAAAGGGACTCCTGCCACTCAGCAGCTTGAAGT
ATCAACACCAGCCCTTGACCCTTGAGTCCTGGCTTTGGCTGACCCTTCTTTGGGTCTCAGTTTCTTCTCTGCAA
ACAAGTTGCCATCTGGTTTGCCTTCCAGCACTAAAGTAATGGAACCTTGATGATGCCTTTGCTGGGCATTATGTG
TCCATGCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCT
GGCAAGACCCCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAGCCTAGAGCCCTCCGGATCCCA
TCCAGGCGCAAAGAGGAATAGGAGGGACATGGAACATTTGCCTCTGGCTGTGTACAGGGTGAGCCCCAAAATT
GGGGTTTACGCTGGGAGGCCACGTGGATTCTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAA
AGTGAAGGAAGTTTATTCAGAAAATAAAGGAGTATCACAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTT
TTTACCAGAAAACCCCTATAAATTAAAAATTTTTTACTTAAATTTAAGAATTAAAAAATACAAAAAAGAAAAAA
TGAAAATAAAGGAATAAGAAGTTACCTACTCCAAAAA

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FIGURE 938

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSMEVASYLVAQYGEQRAWDLALHTWE
QMGLRSLCAQAQEGAGHSFSPYSPSEPHLGSPSQPTSTAVLMPWIHELPAGCTQGSERRVLRQLPDTSGRRWRE
ISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPQPQSLAPREQEAPGTQWPLDETSGIYYTEIRERERE
KSEKGRPPWAAVVGTPPQAHTSLQPHHPWEPVSVRESLCSTWPKNEDFNQKFTQLLLLQRPHPRSQDPLVKRSW
PDYVEENRGHLIEIRDLFPGPLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDRFQHVYFSCRELAQS
KVVSLAELIGKDGATPAPIRQILSRPERLLFILDGVDEPGWVLQEPSSSELCLHWSQPQPADALLGSLLGKTILP
EASFLITARTTALQNLIPSLEQARWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKSNNELWALCLVPWVSWL
ACTCLMQMKRKEKLTLSKTTTTLCLHYLAQALQAQPLGQLRDLCSLAAEGIWQKTLFSPDDLKRGHGLDGAI
ISTFLKMGILQEHPILSYSF IHLCFQEFFAAMSYVLEDEKGRGKHSNCI IDLEKTLEAYGIHGLFGASTTRFL
GLLSDEGEREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLESLSHCLYETRNTFLTQVMAHFEEMGMCVETDME
LLVCTFCIKFSRHVKKLQLIEGRQHRSTWSPMTMVLFRWVPVTDAYWQILF SVLVKVTNRNLKELDLSGNSLSHSAV
KSLCKTLRRPRCLLETTLRLAGCGLTAEDCKDLAFGLRANQTLTDLDFNVLTADAGAKHLCQRLRQPSCKLQRLQ
LVSCGLTSDCCQDLASVLSASPSLKELDLQNNLDDVGVRLLCEGLRHPACKLIRLGLDQTTLSDEMRQELRALE
QEKPQLLIFSRRKPSVMTPTGLDTGEMSNSTSSLRQRLGSERAASHVAQANLKLLDVSKIFFIAEIAEESSE
VVPVELLCVPSPASQDLHTKPLGTDDDFWGPTGPVATEVVDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTV
EIEFCVWDQFLGEINPQHSWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTSLFQMAHFKEEGMLLEKPARV
ELHHIVLENPFSPLGVLLKMIHNALRFIPVTSVLLYHRVHPEEVTFHLYLIPSDCSIRKAIDDLKMFQFVRI
HKPPPLTPLYMGCRTVSGSGSGLMELILPKELELCYRSPGEDQLFSEFYVGHLSGIRLQVKDKKDETIVWEALV
KPGDLMPATTLIPPARIAVPSPLDAPQLLHFVDQYREQLIARVTSVEVVLDKLGQVLSQEQYERVLANTRPSQ
MRKLFSLSQSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLSS

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FIGURE 939A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGCCTGTATTTCTAGAC
CTGCCCTTCGCTGGTTCGTGGCGCCTTGTGACCCCGGGCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCCACTGGCTGGCAAGATGAAGCTCTCCCTGGTGGCC
GCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGACAAGAAGGAGGACGTGGGCACGGTGGTGGC
ATCGACCTGGGGACCACCTACTCTGCTGCGCTGTTCAAGAACGGCCGCTGGAGATCATCGCCAACGATCAG
GGCAACCGCATCAGCCGCTCTATGTCGCTTCACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAAC
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGACGTGGAATGACCCGTCT
GTGACGAGGACATCAAGTTCTTGGCGTTCAAGGTGGTTGAAAAGAACTAAACCATACATTCAAGTTGATATT
GGAGGTGGGCAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAATGAAAGAAACCGCT
GAGGCTTATTTGGGAAAGAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTTAATGATGCCAACGCCAA
GCAACCAAAGACGCTGGAACCTATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT
GCTTATGGCCTGGATAAGAGGGAGGGGAGAAGAACATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG
TCTCTTCTCACCATTGACAATGGTGTCTTGAAGTTGTGGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC
TTTGACGAGCGTGTCTATGGAACACTTCATCAAAGTGTACAAAAGAACGCGGCAAGATGTCAAGAAAGACAAT
AGAGCTGTGCAGAACTCCGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT
GAAATTGAGTCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTGGAAGAGTCTGATATTGAT
GAAATTGTTCTGTTGGTGGCTCGACTCGAATTCCAAAGATTAGCAACTGGTTAAAGAGTCTTCAATGGCAAG
GAACCATCCCGTGGCATAAACCCAGATGAAGCTGTAGCGTATGGTGTGCTGCTCCAGGCTGGTGTGCTCTCTGGT
GATCAAGATACAGGTGACCTGGTACTGCTTGTATGTATGTCCCTTACACTTGGTATTGAAACTGTGGGAGGTGTC
ATGACCAAAGTATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT
GATCTGACTGGAATTCCTCTGCTCCTCGTGGGTCCCACAGATTGAAGTCACTTTTGAGATAGATGTGAATGGT
ATTCTTCGAGTGACAGCTGAAGACAAGGTACAGGGAACAAAATAAGATCACAATCACCATGACCAGAATCGC
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG
CGCATTGATACTAGAAATGAGTTGGAAAGCTATGCCTATTCTCTAAAGAATCAGATTGGAGATAAAGAAAAGCTG
GGAGGTAAACTTTCTCTGAAGATAAGGAGACCATGGAAAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAAGC
CACCAAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAACTGGAAGAAATTGTTCAACCAATTATCAGC
AAACTCTATGGAAGTGCAGGCCCTCCCCAACTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTGTAGACACTG
ATCTGCTAGTGTGTAATATTGTAAATACTGGACTCAGGAACCTTTGTTAGGAAAAAATTGAAAGAACTTAAGTC
TCGAATGTAATTGGAATCTTACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC
ATTAGCAGTTGCTCACATGTCTTTGGGTGGGGGGGAGAAGAAGATTGGCCATCTTAAAAAGCAGGTAAAAAACC
TGGGTTAGGGTGTGTGTTACCTTCAAATGTTCTATTTAACTGAGTGTGATGCTGATGCTGTTAGGAAGTTT
TTTCTACCATAGTGACACCAATAAATGTTTGTATTTTAACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGA
TCAATTACTTATTTAGGAAATTTAAGACTAGATACTCGTGTGTGGGGTGGGGGAGGGAGTATTGGTATGTTG
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGATTTTTTTTTTTTTTTTAAACCTCCTGGGCCCAAGTGA
TCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTACCACCATGCTCGGCTTTTGCATTAACTTA
AGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGTGCCCAAGAGTGGGGTTTT
CTTGAACATACTTGGTTTCTATTTCCCTTATCTTCTAAAACTGCCTTTCTGGTGGCTTTTTTAAATTTATT
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGAGTGAAGTACTGCTGTTAATTTA
TACACTTGGATTTCATTTGTAACCTTAGGATGTAAAGGTATATTGTGAACCTAGCTGTGTCAGAACTCTCCATCC
CTGAAATTTCTCATTAGTGGTACTGGGGTGGGATCTGGATGGTGACATTGAACTACACTAAATCCCTCTACTA
TGAATGGGTTGTTAAAGGCAATGGTTTGTGTCAAACCTGGTTTAGGATTACTTAGATTGTGTTCTCTGAAGAAAAG
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGTCTAACATAAAATCCAATATTGTAATCCTAGCACT
TTGGGAGGCCAAGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTTGCCAACATGGTGAACTCCATCT
CTACTGAAAATACAAAATTAGCTGGGCGTGGTAGTGAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG
GGAGGCGAGGTTGCAGTGAGCCGAGATCACACCACTGTACTCCAGCCCGGCACTCCAGCCTGGCGACAAGAGTG
AGACTCCACCTCAAAAAAAGAAATCCAATACTGCCAAGGATAGGTATTTATAGATGGGCAACTGGCT

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FIGURE 939B

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC
ACTGCCCCGAAAAGCATTGCGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA
TGACCTACAGTGCTGTGTACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACCTCTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT
AGACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 940

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERL
IGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVEKKTOPYIQVDIGGGQTKTFAPEEISAMVL
TKMKETAAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL
GGGTFDVSLTIDNGVFEVVATNGDTHLGGEDFDQVMEHFIKLYKKKTGKDVRKDNRAVQKLREVEKAKRALS
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKS DIDEIVLVGGSTRIPKIQQLV
KEFFNGKEPSRGINPDEAVAYGAAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI
FSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSDKETMEKAVEE
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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FIGURE 941A

CGGCCGCCGCGCATTGCGCCGCGTGGTTCCACGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCGATAACCAAC
TCTCAGAGGTGGCCAATAAGTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGCCTCTTCCCCTCTTAG
ACATCTATAGCTTCTGGCTCAAGTCTGCCAAGGTCCCAGAGCGAAAGTTACAGGCAAATGGACCAGTGGCTAAGA
AAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAG
CAAAGAAGGTGCTGTACCTGCCAAGCGAGTCGGTCTGCCTCCTGGGAAGGTGCAGCCAAAGCATCAGAGAGTA
GCAGCAGTGAAGAGTCCAGTGATGATGATGATGAGGAGGACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGC
CCCAAGCCAAGGCAGCCAAAGCTCCTCCTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGG
ATGAGCCACCAAAGAACCAGAAGCCAAAGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCCTCCCAAAC
CAGCTCGAGCAGCACCTAAAAATAGCCAATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCA
GTGATGACTCAGAGGAGGAGAAGGCAGCAGCCACCCCCAAGAAGGTCTGGACCATAACTTCTGTCTAGGGCAGAGA
CTGTACCTAAAAAGCAAGTTGTGGCCAAGGCCCCAGTGAAAGCAGCTACCACCCTACCCGGAAGAGTTCTAGCA
GTGAGGATTCTCCAGTGACGAGGAAGAGGAGCAAAAAAACCCTAGAAAAATAAACAGGTCCCTACAGTTTCTAG
TCCCCCGCCTTCTGCTCCCCACCAAAGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGTGTGGAGAAGCAGC
AGCCTGTGGAAAGCAGTGAAGACAGCAGTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCAACTA
AGGCAGTAGTCTCTAAAGCAACCACTAAACCACCTCCAGCAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAG
ACTCTGACAGCTCTGAGGATGATGAAGCTCCTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAATAAGCCAG
CTGTACCACCAAGTCACCTGCAGTGAAGCCAGCTGCAGCCCCAAGCAACCTGTGGGCGGTGCCAGAAGCTTC
TGACGAGAAAGGCTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGG
TGGCCACCCTAAGCCCAAGGCGACTGCCAAAGCAGCTCTACCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTA
GGGACAGCAGCTCTGATTAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGA
AGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAAGGCTGAGAGCA
GCAACAGTTCTTCTTCTGATGACTCCAGTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCCAAGACCAC
AAGCCCCCAAGGCCAATGGCACCTCTGCAGTACTGCCCAGAAATGGAAAAGCAGCTAAGAACAGTGAGGAGGAGG
AAGAAGAAAAGAAAAGGCGGCGAGTGGTAGTTTCCAAATCAGGTTTATTAAAGAAGCGGAAGCAGAATGAGGCTG
CCAAGGAGGCAGAGACTCCTCAGGCCAAGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAG
GAGAAAAAAGGGCATCATCCCCATTCCGAAGGGTCAGGGAGGAGGAAATTGAGGTGGATTACAGAGTTGCGGACA
ACTCCTTTGATGCCAAGCGAGGTGCAGCCGGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTACCAAAG
GCAAGTCCTTTTCGGCATGAGAAAACCAAGAAGAGCGGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCA
ATTCTATTAAGTTTGACAGCGAGTGACCTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTAC
TTTCTCCAGTGAGCTGGGAACCCCTCAGGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCC
TAAGACTTTACAGTGTAACATCCTCTCTGGTCTTTTCTGTGTTCTAGTTTTGTACAGACTTGTTTTTGAGTGT
TGAGTAGCAGGGACAAAATAAGGGAATGTTATTTTTTAAGAAAATTCATTTTCATTGTTGTCTCCTTCTTTCT
GTGAAAGTCTCATACTGAGAAATTTGTATATTTTATATTAATCACTTACTATTGATTTTTGTGTGATTTTCA
AAGGTGGATTCCCACAGATAAAATCTTGGCTATTGCCCAAAACATAGTAAAGGGTCAGGTGTGACTTTTTATAAT
AGGAAGAAAATTCGCCTTTGTGAGTGCACATGTCCACATTTTCATCCCTCCTTCCCTCAAAACCTTAGAGAGGGG
CATTAAAGAATTGTTGATGTATATGCAATGTCTGTAAAGCATGCATATGTATTTTCATCCTCATTATTGGGTCT
GGGACTGAAGTTTTTAGCCAGCATGGACCTAACCTACTTTTTGGGATAAAATTCCTGTTTTGTTACAGGCAAAA
TTCTGGTATGGCGTGAATGCCATGGGTCACTCTGAATATATTTTTTCTGTAATTTTATCATTACAGCATGTTTG
CAATACGTGCTTTGTTTTTAATTTGAAAGCAAACCTTTTCTACTGTTGAAAGACATTTTTTGACAACCTTGACCTT
TCCTAGTATTGAGTTCTAAGTTGAGGACTGCATCTTCTCGTTTTTACAGTATAGAGAACAATAATGACATTAGTT
TGAAAAATACATATCACTTGGTATTGCTGTCTTGGTGCAGTGGTGATACAGAATTGGTTTTCTTAATTCCTACA
TGTTTGAGAACTCACTGATCAAGAAAGTGGGGGAAAAAACAACGTTAAACCTCAATCCTCAGTAGGAAGGT
AGATTACATTAGGTGAAATTATAGGTAATCTATGTGTCTAATGGGGTTGGAAGAACCTTACAGAGCATATT
ACCTGATAAACTGGAGTGGGTTTTGGGAGAAACAATAATAGGATTATTGTGTCTCTAGTTACCTGGGAGCA
ATTGACATGCCCCCTTCAAGACCTTAACTGTTAGTAGCAGTGGCTGTAACAACACAACCAAGCAGTACAGAGATAA
CAGCTTTTAGGCCAAGCTGGCCTGACGGTATGGCTGAGGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
AGACGGAGAGGGAAGAGTCCACAGCTTTCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCAAGCCTT
CATGGACGAGTTATAGGTCTTAAGATTAGTCTCCTCTTGTGGATTCCATACCTTCTAAATAACCTGATAATAA

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FIGURE 941B

CCTGGTTTTCCATGTAACGCTCTAGGAAGAAAATGTACTGTTTCATGCTGACACAGATATTCAGTCTGCATGG
TAAAAGTTCTAAATCTTACTACAAAATAATAAACTGGCTGGTTTATAATGTG

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FIGURE 942A

TCTCACTATAGGGCTCGAGCGGCCGCGCGGCGGAGGCTGACCACAGTGGTTCCGGGGAGAAGCCTTCCAGGACCC
ATGTGTAGGCACAACGTGTTTTCCCTGATCAGGATACTTCCGGCACTCAACAGAGGAAAGAAATTCCTAAGGGAAC
ACTGCTCAGAAAGTACTGCAGCATGTCTTCAAATGCCTGAGGATCAAGTTGGAAAACCTAGAAGCAACAGAAAACA
CAATAAGCGCAATGCGCGGCGCGCGGCGGAGCAGCAACAGTTCTACCTGCTGCTGGGAAACCTGCTCAGCCCCG
ACAAATGTGGTCCGGAACAGGCAGAGGAAACCTATGAGAATATCCCAGGCCAGTCAAAGATCACATTCTCTTAC
AAGCCATCAGAAATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCGGTTCTCCTAAGACGTCTCTTGTCTT
CTGCATTTGATGAAGTCTATCCAGCACTTCCCTCTGATGTTTCAGACTGCCATCAAGAGTGAGCTACTCATGATTA
TTCAGATGGAAACACAATCTAGCATGAGGAAAAAAGTTTGTGATATTGCGGCAGAACTGGCCAGGAATTTAATAG
ATGAGGATGGCAATAACCAGTGGCCGAAGGTTTGAAGTTCCTTTTTGATTTCAGTCAGCTCTCAAAATGTGGGAC
TGCGGGAAGCTGCCCTTACATTTTTCTGGAACCTTCTGGAATTTTTGGGAACCAGCAACAACACTATTTAGATG
TCATCAAACGAATGTTAGTTTCAGTGTATGCAAGATCAGGAACACCCGTCGATCAGGACGTTATCTGCTAGAGCTA
CAGCTGCATTTATACTTGCAAATGAGCATAATGTTGCTCTGTTCAAACATTTTGCAGACTTGCTACCGGGATTCC
TACAGGCGGTAAATGACTCGTGTCTACCAGAATGATGATTCTGTCTCTAAATCCCTCGTTGAGATTGCAGATACTG
TTCCAAAGTATTTGCGTCTCACTTGGAAAGCAACTCTACAGCTAAGTCTAAAGTTGTGTGGAGACACTAGCCTCA
ACAATATGCAACGCCAGCTTGCCCTTGAAGTGATCGTCACCTCTCTGAGACTGCAGCTGCTATGTTAAGAAAAAC
ATACCAATATTGTTGCACAGACTATTCCCTCAGATGTTAGCAATGATGGTTGATTGGAAGAAGATGAGGACTGGG
CAAATGCAGATGAAGTAGAAGATGATGATTTTGACAGCAATGCAGTTGCAGGCGAGAGTGCTCTAGATCGAATGG
CTTGCGGACTTGGTGGAAAGCTCGTTCTGCCGATGATCAAGGAACACATTATGCAAATGCTTCAAAATCCTGACT
GGAAATACCGGCATGCAGGATTGATGGCCTTATCTGCCATTGGTGAAGGGTGCCACCAGCAAATGGAAGGAATTC
TAAATGAGATCGTAAATTTTGTGTTTACTTTTTCTCCAGGATCCTCATCCAAGAGTAAGGTATGCAGCCTGTAATG
CCGTGGGACAGATGGCTACAGATTTTGCACCTGGTTTCCAAAAGAAATTTTCATGAGAAGGTGATTGCAGCTCTGC
TGCAGACCATGGAAGACCAAGGCAATCAACGTGTGCAGGCCCATGCAGCTGCTGCCCTCATTAACTTTACTGAAG
ACTGTCCCAAGTCACTACTTATTCCATACTTGGATAATTTGGTGAAACATCTGCATTCCATTATGGTACTGAAGC
TTCAAGAGCTGATTAGAAAGGCACCAAGTTAGTTTTGGAACAAGTTGTGACATCCATTGCATCAGTTGCCGATA
CTGCAGAAGAAAAATTTGTCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTTGAGAATGCGGTTT
AAAAAGAAGTCTGAGACTTCTGAGAGGAAAACTATTGAATGCATTAGCCTCATTGGTCTGGCTGTGGGAAGGAAA
AATTCATGCAGGATGCATCAGATGTGATGCAGCTTTTGTGTTAAAGACCCAGACAGACTTCAATGATATGGAAGATG
ATGATCCTCAGATCTCTTACATGATCTCAGCATGGGCCAGAAATGTGCAAAATCCTTGGAAAAGAAATTCAGCAAT
ACCTTCCAGTGGTTATGGGGCCTTTAATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAG
ACATGGAGAATATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGGAGATCAGCAAAGCTTTGGTATTAAAA
CTGCAGGACTAGAAGAAAAATCAACTGCTTGCCAGATGTTGGTTTGTCTATGCTAAGGAGTTAAAGGAAGGCTTTG
TGGAGTACACCGAACAGGTTGTCAAATGATGGTCCCTTTACTGAAATTTTATTCCACGATGGTGTTCGAGTGG
CAGCAGCGGAATCCATGCCTCTTCTCTGGAGTGTGCAAGAGTCCGTGGTCTGAGTATCTCACACAGATGTGGC
ATTTTATGTGTGATGCTCTAATTAAGGCCATTGGTACAGAACAGATTTCAGACGTCTCTCAGAAATAATGCATT
CTTTTGCAAAGTGCATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGAAGTGGGAGGTATAT
TGAAAGCAAAGCTTGAAGAACATTTAAAAATCAAGAATTACGACAAGTTAAAGACAAGATGAAGACTATGATG
AACAGGTGCAAGAGTCACTACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAGTGTGATATTTTAC
ACTCAATATTTCAGTAGCTACAAGAAAAAGGTGTTACCATGGTTTGAACAGCTGCTTCCATTAAATGTCAACCTCA
TTTGTCCACATAGACCATGGCCAGACAGACAATGGGGATTATGCATCTTTGATGATGTGATGACAACAGCCAGAAAGTCA
CAGCCTCATTTAAATACGCAGAATATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAGCCAGAAAGTCA
GGCAAGCAGCTGCATATGGCTGGGAGTCAATGGCAGATACGGTGGAGATAATATCGCCCTTTTGTACAGAAG
CACTTCCCTGCTGGTAAGAGTTATTTCAGTCTGCGGATTCTAAGACCAAGAAAGAAATGTCAATGCTACAGAGAAGT
GCATCTCAGCAGTAGGGAAAAATCATGAAGTTCAAGCCTGACTGTGTAACGTTGAAGAGGTCTTCCACACTGGT
TGCTTGGCTTCCACTACATGAAGATAAAGAAGAAGCTGTTTCAGACTTTCAATTATCTGTGTGACCTGATTGAAA
GTAATCATCAATTGTTCTTGGCCCAACAATACCAATCTGCCCAAAATATTTAGTATAATTGCGGAAGGAGAAA
TGCACGAGGCAATTAAACATGAAGATCCTTGTGCCAAACGCTCGGCCAATGTCGTTCCGCAAGTACAGACTTCTG
GAGGACTGTGGACTGAGTGCATAGCACAGCTCAGTCTGAGCAGCAGGCCGCCATTAGGAGCTCTGAACTCTG
CGTGAAGGGCCTTAATGTCAACCCACCAGAAAACTAACTCCAATAAACGCTTACCCTTTTCTTTAGGTTTCTTTG

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FIGURE 942B

TTTTGTTTTTGAGCAAAAGAGATCGGTAGTGTTGTGTAGGCCATTCTTCTGGAGAGCCACAAGCAGGAAGAGC
AGCGCTGTGTGCAGAAATGGAGTTTCCATGGATTTCTACCAGACCACTGAAGGAGTTCCTGGAAGCCCTGCGTAC
GTAGCACTGAAGACTATTTTTCTATTGGTATAACCCGCCCACCTGAAGGGGAAAGGGAAATCAAATTAATTTTTC
TCGTTAGACATAAGGAAATTTAAGGAAAAACAGCTTTAAGAACAGTTACTCAGCGTAGATGTGTGTTACACAAA
TTGCCTTGCATTGAGTGTTCATTGTGAATTGGGAGTGTGAGTCTTTCTGTAGGGTACAAAGAAGCCTCCTACCCA
GCAAACCAGTAGACCCAAAAGTTGAAAAAACTGGATGACAGACAACAAGCATGAAGATGGCATATTTGATGTCA
CTTTGGTTCTTTTTCCAGAAGGCTTATACAGTGACTCAGTCGGGAAGCTTTCCAGCTTCAGCCCTTGAATGTGA
AGTGTCAATTGGCATGTCTGGCAGTAGTCTCTCATTCACTCCCAATAAACAACATTGAATACAAAAGAGGCTTGTG
TAAAAACTCAGTACTGTCTGGCTTGGATTCAATTCATGTTTTTTAATATAAGAATGATCTAATATTTTTTTAAAG
TAATAGCTATCAGTAATAGCTGAGTGTTTTTTCCCTAATATTTTCTTGTGCAATTCAGACTTAAGCATCGAGT
TTTTACCATCTTCCACTTTAAGCTAAGTTATGATACCTATTCCATTCACAATTGGTGTCTTTTTAAGGTTTGCA
AATTTAGCCAATTTTGTAGCTAAGATTGTTCTGATCAGCTCAAAAAGATTTGGCTTAGTGTTCATTGCAAAAT
TATAATTGCTGTAGAGCCACACACAACCTTTGAACTTTAATTATAAGTGTATGGCTAAAGTTATTTACTGAAA
ATTTAGTAAATGTGIGAATGTTTCTTTATGTATTAACCTCATAGCAGTAAATGACTTGCTGTGTTTAAATTTT
TCTAAGGCATCTTAATAGACTTCTCTTGAAAAACCTTTCCAAGGTGTTAACATTTTTATAGTTTGTACTAAATT
TAACCGTGATATAAAAAATGAATTTTATGCATAGATCAGAATTTTAAATTAAAGGTTTTTCTTTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 943

MAAAAAEQQQFYLLGNLLSPDNVVRKQAEETYENIPGQSKITFLLQAIRNTTAAEEARQMAAVLLRRLLSSAFD
EVYPALPSDVQTAIKSELLMI IQMETQSSMRKKVCDIAAELARNLIDEDGNNQWPEGLKFLFDSVSSQNVGLREA
ALHIFWNFPGIFGNQQQHYLDVIKRLVQCMQDQEHPSIRTLSARATAAFILANEHNVALFKHFADLLPGFLQAV
NDSCYQNDSDVLKSLVEIADTVPKYLRPHLEATLQLSLKLCGDTSLNNMQRLALEVIVTLSETAAAMLRKHTNI
VAQTIPQMLAMMVDLEEDWDANADELEDDDFDSNAVAGESALDRMACGLGGKLVLPMIKEHIMQMLQNPDWKYR
HAGLMALSAIGEGCHQQMEGILNEIVNFVLLFLQDPHPRVRYAACNAVGMATDFAPGFQKKFHEKVIAALLQTM
EDQGNQVRVQAAAAALINFTEDCPKSLIPYLDNLVKHLHSIMVLKLQELIQKGTKLVLEQVVTSTIASVADTAE
KFVPYYDLFMPSLKHIVENAVQKELRLLRGKTIECISLIGLAVGKEKFMQDASDVMQLLKTQTDNDMEDDDPQ
ISYMISAWARMCKILGKEFQQYLPVVMGFLMKTASIKPEVALLDTQDMENMSDDDGWEFVNLGDQQSFGIKTAGL
EEKSTACQMLVCYAKELKEGFVEYTEQVVKLMVPLLKFYFHDGVRVAAAESMPLLECARVRGPEYLTQMWHFMC
DALIKAIGTEPDSVDLSEIMHSFAKCEVMGDGCLNNEHFEELGGILKAKLEEHFKNQELRQVKRQDEDEYDEQVE
ESLQDEDDNDVYILTKVSDILHSIFSSYKEKVLWFEEQLPLIVNLICPHRPWPDRQWGLCIFDDVIEHCSPASF
KYAEYFLRPMLQYVCDNSPEVRQAAAYGLGVMAQYGGDNYRPFCTEALPLLVRVIQSADSKTKENVNATENCISA
VGKIMKFKPCVNVVEVLPHWLSWPLHEDKEEAVQTFNYLCDLIESNHP IVLGPNNNTNLPKIFSIIAEGEMHEA
IKHEDPCAKRLANVVRQVQTSGLWTECIAQLSPEQQAIIQELLNSA

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FIGURE 944

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTCCGCTTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAGAGATCTTTCTGAGAGAGCTCATTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCCACTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAAGCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTTCATGGAAGCTTTCAGGCTGGTGCAGATATCTCTATG
ATTGCCAGTTCCGGTGTGGTTTTATTCTGCTTATTGTGGTTGCTGAGAAAGTAAGTGTGATCACCACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCCTCAGCAGGGGGATCATTACAGTGAGGACAGACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAGAAAAGAAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGTTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCAGCATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCACGACGTGCTCCTTTTGATCTGTTTGAACAGA
AAGAAAAGAACAACATCAAATTGTATGTACGCAGAGTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAAGTTTATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAGTTATCAGGAAGAATTTGGTCAAAAATGCTTAGAACTCTTTACTGAAGTGGCGGAAGAT
AAAGAGAACTACAAGAAATCTATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTTCAAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCATTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAA
GAAGAGAAAAGAAGCAGGAAGAGAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTCAACAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAAGTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

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FIGURE 945

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLD SGKE
LHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAEKEDKEEEEKEEKESEDKPEIEDVGSDEEEKKDGDKKKKKKIKEKYIDQEELNKTPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFI RGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPI
DEYCVQQLKEFEGKTLVSVTKGLELPEDEEEKKKQEEKKT FENLCKIMKDILEKKVEKV VVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMP PLEGDDDTSRMEEVD

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FIGURE 946

ATCCCCCTCCGGTTTTCTCAGTCTCCACGTACGTCCCTCAAAGCGCGTCCTAAAACCCGGATAACCGGAGCGCTC
CCCATGGACCACACGGAGGGCTTGCCCGCGGAGGAGCCGCTGCGCATGCTCCATCGCCTGGGAAATTTGGTGAG
CGGCCTCCACCTAAACGACTTACTAGGGAAGCTATGCGAAATTATTTAAAAGAGCGAGGGGATCAAACAGTACTT
ATTCTTCATGCAAAAGTTGCACAGAAGTCATATGGAAATGAAAAAAGGTTTTTTTGCCACCTCCTTGTTATAT
CTTATGGGCAGCGGATGGAAGAAAAAAGAACAATGGAACGCGATGGTTGTTCTGAACAAGAGTCTCAACCG
TGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGGAAGGAAAGAACTATTGCACA
GCCAAAACATTGTATATATCTGACTCAGACAAGCGAAAGCACTTCATTTTTCTGTAAAGATGTTCTATGGCAAC
AGTGATGACATTGGTGTGTTCTCAGCAAGCGGATAAAAGTCATCTCCAAACCTTCCAAAAGAAGCAGTCATTG
AAAAATGCTGACTTATGCATTGCCTCAGGAACAAAGGTGGCTCTGTTTAAATCGACTACGATCCCAGACAGTTAGT
ACCAGATACTTGATGTAGAGGAGGTAATTTTCATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTTCATCTC
TTGGATGATGATGAATCAGAAGGAGAAGAATTCACAGTCCGAGATGTCTACATCCATTATGGACAAACATGCAAA
CTTGTGTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTATGAAAGTTGATAAGCATACCGCATTATTG
GATGCAGATGATCCTGTGTCACAACCTCCATAAATGTGCATTTTACCTTAAGGATACAGAAAGAATGTATTTGTGC
CTTTCTCAAGAAAGAATAATTCAATTTTCAAGGCCACTCCATGTCCAAAAGAACCAATAAAGAGATGATAAATGAT
GGCGCTTCTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTATGAGGGAATGGGCCCTGTCCTTGCC
CCAGTCACTCCTGTGCCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTGGGGACGTAGCAATGCTTGAACCTTACA
GGACAGAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAG
AGTATGCTCTGTGTCGTCCAGACATTTCTGCATTCCGAGAAGGTTGGAGATGGGTCCGGCAACCAGTCCAGGTT
CCAGTAACTTTGGTCCGAAATGATGGAATCATTTATTCCACCAGCCTTACCTTTACCTACACACCAGAACCAGGG
CCACGGCCACATTGCAGTGTAGCAGGAGCAATCCTTCCAGCCAATTCAAGCCAGGTGCCCCCTAACGAATCAAAC
ACAAACAGCGAGGGAAGTTACACAAACGCCAGCACAAATTCACCAGTGTACATCATCTACAGCCACAGTGGTA
TCCTA

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FIGURE 947

MDHTEGLPAEEPPAHAPSPGKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPCPPCVYL
MSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSKRRKHFIKSVKMFYGN
DDIGVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFIHL
DDDESEGEFTVRDVYIHYGQTCKLVCSVTGMALPRLIIMKVDKHTALLDADDPVSQLHKCAFYLKDTMYLCL
SQERIIQFQATPCPKPENKEMINDGASWTIISTDKAETTFYEGMGPVLAPVTPVPVVESSLQNGGGDVAMLELTG
QNFTPNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQPVQVPVTLVRNDGIIYSTSLTFTYTPEPGP
RPHCSVAGAILPANSSQVPPNESNTNSEGSYTNASTNSTSVTSSTATVVS

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FIGURE 948A

CGAAGGACCTGAAGGAAAGTGAAAAGTCCAAAGTTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATC
CATGCCAGATATTGACCTGAATCTCACAGGTCCAAAAATAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGA
GGGAGATCTGAAAGGTCTGAAGTTGACCTCAAAGGCCCCAAAGTGGACATTGATGTCCCAGATGTTAATGTCA
GGGTCCAGACTGGCACCTGAAGATGCCCAAGATGAAAATGCCTAAGTTCAGTATGCCTGGCTTCAAAGGAGAGGG
CCCAGATGGTGGATGTGAAGCTGCCCATAGGCTGACATTGATGTCTCAGGACCAAAGTGGACATTGAAGGCCCTG
ATGTTAACATTGAAGGACCAGAGGGAAGTTGAAAGGGCCTAAGTTCAGATGCCAGAGATGAATATCAAAGCCC
CCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGTGATGTGGATGTTTCCCTTCC
TAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCCAAAGTGGACATTGACGCACCTGATGT
TGATGTTTCATGGCCAGACTGGCACCTAAAGATGCCCAAGATGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAA
AGCAGAGGGCCCTGAAGCTGGAATGTGAACCTGCCCAAGGCTGACGTTGATGTCTCAGGCCCCAAAGTGGATATT
AATGCCCCAGATGTGGGTGTTCAAGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCAAAGTTCAGC
ATGCCTGGCTTCAAAGGAGAGGGGCCAGATGGGGATGTGAAGCTGCCCAAGGCTGACATTGATGTCTCAGGACCC
AAAGTGGACATTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAGTTGAAAGGGCCTAAGTTCAGATG
CCAGAGATGAATATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAG
GGTGATGTGGATGTTTCCCTTCTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCCAAA
GTGGACATTGACGCACCTGATGTTGATGTTTCATGGCCAGACTGGCACCTAAAGATGCCCAAGATAAAAATGCC
AAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGACGTGAACCTGCCCAAGGCTGACATTGATGT
TCAGGACCGAAAGTGGATGTTGAATGTCCCGATGTGAATATCGAAGGACCTGAAGGAAAGTGGAAAAGTCCAAAG
TTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATCCATGCCAGATATTGACCTGAATCTCACAGGTCCA
AAAATAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGAGGGAGATCTGAAAGGTCTGAGATTGACCTCAA
GGCCCCAAAGTGGACATTGATGTCCCAGATGTTAATGTTTCAGGGTCCAGACTGGCACCTGAAGATGCCCAAGATG
AAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGCAGAGGGCCCTGAAGTGGATGTGAACCTGCCCAAGGCTGAC
GTTGATGTCTCAGGCCCCAAAGTGGACGTTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAGTTGAAA
GGGCCCCAAGTTCAGATGCCAGAGATGAATATCAAAGCCCCAAGATCCCCATGCCTGACTTTGATTTGCATCTG
AAAGGTCCCAGGTGAAGGGCGATGTGGATATTTCTCTGCCAAAGTGAAGGTGACCTCAAGGGCCCTGAAGTT
GACATCAGGGGTCCCAAAGTGACATTGATGTCCCGGATGTGGGCGTTCAAGGCCCAGACTGGCACCTAAAAATG
CCCCAAGTGAAAATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCC
AAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTCCAGATGTGAATATCGAAGGCCCAGAGGGA
AAGTTGAAAGGTCCCAAATTCAAAATGCCTGAGATGAACATCAAAGCCCCAAGATCTCCATGCCTGACATTGAT
CTTAACCTGAAAGGTCCCAAAGTGAAGGGTGACATGGATGTGTCTCTGCCAAAGTGAAGGTGACATGAAAGTT
CCTGACGTGGATATTAAAGGCCCCAAAGTGGATATTAATGCCCCAGATGTGGATGTTCAAGGCCCAGACTGGCAC
CTGAAGATGCCATAAAATAAAAATGCCCAAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGAAGTGGACGTG
AACCTGCCCAAGGCTGACCTTGACGTCTCAGGACCCAAAGTGGACGTTGATGTTCCAGATGTGAATATTGAAGGT
CCAGATGCGAACTGAAGGGCCCTAAATTCAGATGCCAGAGATGAACATCAAAGCCCCAAGATCTCCATGCCT
GACTTTGATTGTCATCTGAAAGGCCCTAAGGTGAAAGGAGATGTGGATGTTTCTCTGCCTAAGATGGAAGGTGAT
CTAAAGGGTCTGAAAGTTGACATCAAGGGCCCCAAAGTGGACATTAATGCTCCAGATGTGGATGTTCAAGGCCCA
GACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGAT
GTGGATGTGAACCTGCCCAAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTCTCTGATGTGGAT
ATCCGAAGGTCCAGAAGGGAACTGAAAGGTCCCAAATTCAGATGCCTGAGATGAGCATCCAAGCCCCAAGAT
CTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCTTCTTAAAGT
GGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGATGTGGATGT
TCATGGCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGA
AGGTCCAGATGTGGATGTGAACCTGCCCAAGGCTGACATTGATGTCTCAGGACCCAAAGTGGACGTTGATGTTCC
TGATGTGAATATCGAAGGTCCAGATGCGAACTAAAGGGCCCCAAGTTCAGATGCCTGAGATGAGCATCAAAGC
CCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCT
TCCTAAAGTGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGA
TGTGGATGTTTCATGGCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTCAGCATGCCTGGCTT
CAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGACCCAAAGGTGGACGT

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FIGURE 948B

TGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAGATGCCTGAAATAAA
TATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTTGAAAGGACCCAAAGTAAAAGGAGATTTTGA
TGTGCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCACGTCTGGATTTCTGA
AGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCTCTAAAGTAACTGC
TCCTGATGTTGATTTGCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAAGGTGGTGAAGTGGA
CCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATTAACATCGAAGGGCC
AGATGTTAAAATCCCCAAATTTAAGAAACCCAAGTTTGGATTTGGGGCAAAAAGCCCCAAAGCTGACATCAAGTC
ACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGTGTGGTGGCAAGGG
CAAGAAAAGTAAGTTTAAAATGCCTAAAATTCAATAGTGGTCTTAAGATTAAGGCCAAAAAACAGGGATTTG
ACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAACATCGCAGGGCCGG
ATGCTGCACTCAAAGTCGACGTGAAATCGCCCAAAACCAAGAAACGATGTTTGGAAAAATGTACTTCCAGATG
TAGAGTTTGACATTAAATCACCTAAATTTAAGCTGAGGCCCCCTCTCCCTAGCCCCAACTGGAGGGTGAATCC
AGGCACCTGATCTGGAACCTTCTTTGCCAGCGATTACGTGCAAGGTCTTGACATCAAGGCCAAGGCTCCCAAGG
TCAAGATGCCAGATGTGGACATCTCAGTGCCAAAAATAGAGGGTGACCTGAAAGGGCCCCAAAGTGCAGGCCAACT
TGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCTTCGGCATTTCTGCCCTC
AAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAGATAAAGGGTGATGTCCCAGCGTGGGACTGG
AAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCAAGTTTTCATGCCCAAGATCGGCA
TCCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCTCTCTTGAAAGGAGACTTGAGAG
GACCAGATGTTAAGCTCGAAGGGCCCGATGTTCTCTAAAGGGGCCAGGAGTAGACTTGCTTTCAGTGAACCTCT
CTATGCCAAAAGTCTCTGGGCTGACCTTGATCTGAACCTGAAAGGACCAAGTTTGAAGGGAGACCTGGATGCAT
CTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTCCGTGGCAAAATGCAGGTGGGAGGAG
ACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTGACACTGAGGGGAC
CAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAAATGCCCTAAAGTATCCGTAGGAGCTCCTGATCTAA
GCTTGGAGGCATCCGAAGGCAGCATTAACTTCCCAAAATGAAGCTGCCCAATTTGGCATCTCTACTCCGGGGT
CCGACTTGCACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAAGTGAAGGGGCCAGGTGTGGATGTGAACCTGA
AAGGGCCTCGGATTTCAAGCACCAGATGTGGACTTTAACTTGAAGGACCAAAAGTGAAAGGGAGCCTTGGGGCCA
CTGGTGAGATCAAAGGCCCCACTGTCTGGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCTAGAAGGAAACCTCC
AGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAACTCCCACTGGGCAGA
TTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTCAAGAGTAGGTTTCCATGGGGCTGCTCCTGATATCAGTG
TGAAGGGGCTGCCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTGAAGGGGCCAAAAATCAAAG
GAGGTGCGGATGTTTCAAGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTGTAGTGTAAAGGTT
CCGGGGGTGAGTGGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTTGTGGGGGCTTC
ATTTCTCAGGACCAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCTGGGCTGAGTGTGT
CTGGGCTCAAGGTCACTTGGAAAGTGGATCTGGAAAAGTAACATTCCCTAAAATGAAGATCCCCAAATTTACCT
TCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAGGCCAGCATCCAAG
CTGGTGTGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTGAAGGATCAAGATCAAAATGCCCAAGTTTA
ATTTTTCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGGTCCAAAGGTGACC
TGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTACCAGAAAGGCAAA
TCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTAGTGATGAAAGAGAGTTCTCTGGACCTT
CCACCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTTAAAGGGAAACAG
GGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCAATATGAGGTGACTGGGAGCGATG
ATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTTAAGAAGTCCGACTGTCTCTCTCTCTAGCA
ATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCGAGGTGGAGCTGTCAAGTTCCACAAAGAAAGAGTAGCAGG
CCTTTGTATGTGTACATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTTCCTATATAAACTCCA
AAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCTGGCCCGGTGGCAAGCGCTGAAAAACCGA
CCGCTGTAGGCTCCTGGAACATACAGATAGGTAAAGAGTTCCAAGTTCGTCCAGCCCATGTGCAAAGTCAACA
GTATTTGCCTTAAGATTTCAATATATATATATTTTTTGCATTGACTGCTGAGAGCTCCTGTTTACTAAGCAAGCT
TTTGTTTATTATCCTCATTTTTTACTGAACATTGTTAGTTTTGGGGTAATGGAACCCACTTTTTTCAATTGTAAT

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FIGURE 948C

GACTTTGGGGGCTTTTGTAGTAAGGGTGGGTGGGGTGATGGGTTGCAGACGGAGGTCAGGTCTTCCTCTTCCT
GAGACTGGATCTGTTCAAACAGCAAACGCCCACAGATGGCCCAGAGGTGGTGGTAGTCAGGGTGTGTGGGTGTTT
TTAGGGTTCTTTAGTGTGTTTCTTTACCCAGGGGTGGTGGTCCCAGCCAGTTTGGTGCTGACGGTGAGAGGAA
ATTAGAATCTGTTTGCAAATTGTCCAACCCACCCCTCAACATGAGGGGGCTTCCATTTTCTGTGTTTTGTAAGGG
AACTGTTTCCTTCATGCCGCCATGTTCCCTGATATTAGTTCTGATTTCTTTTAAACAAATGTTATCATGATTAAGA
AAATTTCCAGCACTTTAATGGCCAATTAAGTGAAGAAATGATGCTGTACAAGGCAAATAAAGCTGT
TTATTAACTCCGAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCA

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FIGURE 949

MPKVKMPKFSMPGFKGEGPDGDVKLPKADIDVSGPKVDIEGPDVNIIEGPEGKLGPKFKMPEMNIKAPKISMPDI
DLNLKGPKVKGDVDVSLPKVEGDLKGPEVDIKGPKVDIDAPDVDVHGPDWHLKMPKIKMPKISMPGFKGEGPDVD
VNLPKADIDVSGPKVDVECPDVNIIEGPEGKWKSPKFKMPEMHFKTPKISMPDIDLNLTGPKIKGDVDVTGPKVEG
DLKGPEVDLKGPKVDIDVPDVNVQGPDWHLKMPKMKMPKFSMPGFKAEGPEVDVNLPKADVDVSGPKVDVEGPDV
NIEGPEGKLGPKFKMPEMNIKAPKIPMPDFDLHLKGPKVKGDVDISLPKVEGDLKGPEVDIRGPKVDIDVPDVG
VQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGPKVDIDVPDVNIIEGPEGKLGPKFKMPEMNIK
APKISMPDIDLNLKGPKVKGDMVSLPKVEGDMKVPDVIDKGPKVDINAPDVDVQGPDWHLKMPKIKMPKISMPG
FKGEGPEVDVNLPKADLDVSGPKVDVDVPDVNIIEGPDALKGPKFKMPEMNIKAPKISMPDFDLHLKGPKVKGDV
DVSLPKMEGDLKGPEVDIKGPKVDINAPDVDVQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGP
KVDIDVPDVIDRRSRRETERSQIQDAEMSIQAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPK
VDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDVPDVNIIEGPDALKGPK
FKMPEMSIKAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPK
KMPKFSMPGFKGEGPDVDVSLPKADIDVSGPKVDVDIPDVNIIEGPDALKGPKFKMPEINIKAPKISIPDVLDDL
KGPKVKGDFDVSVKVEGTLKGPEVDLKGPRDLFEGPDALKSGPSLKMPISLEISAPKVTAPDVLHLKAPKIGFS
GPKLEGGEVDLKGPKVEAPSLDVHMDSPDINIEGPDVKIPKFKKPKFGFGAKSPKADIKSPSLDVTVP AEALNLE
TPEISVGGKGGKSKFKMPKIHMSGPKIKAKKTGIDLNVPGGEIDASLKAPDVDVNIAGPDAAALKVDVKSPKTKKT
MFGKMYFPDVEFDIKSPKFKAEAPLPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPKVKMPDVIDISVPKIEGD
LKGPKVQANLGAPDINIEGLDAKVKTPSFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPDVDLQGP EAKIKF
PKFSMPKIGIPGVKMEGGGAEVHAQLPSLEGDLRGPDVKLEGPDVSLKGPGVDLPVNL SMPKVS GPDLDLNLKG
PSLKGDLDA SVPSMKVHAPGLNLSGVGGKMVQGGDGKVP GIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCP
KVS VGAPDLSLEASEGSIKLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGP GVDVN LKGPRI SAPNVDFNLEG
PKVKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVG
FHGAAPDISVKGPAFNMASPE SDFGINLKGPKIKGGADVSGGV SAPDISLGEGLSVKSGSGGEWKGPQVSSALNL
DTSKFAGGLHFS GPKVEGGVKGQIGLQAPGLSVSGPQGHLES GSGKVTFPKMKIPKFTFSGRELVGREMGVDVH
FPKAEASIQAGAGDGEWEESEVKLKKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLGSLEGEAE
AEASSPKGKFSLFKSKKPRHRSNSFS DEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLFGTFGGLGSKSK
GHYEVTGSDDDETGLQSGSVSLASKKSRLSSSSSSNDSGNKVGIQLPEVELSVSTKKE

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FIGURE 950

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATA
ACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTATGAACCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCCTCCTTGGGGTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTAGAAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGGAAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACGGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCATTATCCTGGAACAGATGCAGAAGGACCCCGAGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTGGATGACTTGTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCGAGCAGCAGCGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTGTGCGCCGCTGCCTCTG
GGCCCTCCCAGCACACGCATGGTCTCTTACCCTGCCCCTCGAGTTCCATGTCTCTTTCCCTGCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTATTTGGGGCAGTGGGCATGTATGGGGAGGGGAGGGGGT
TCTTCCAGCCTCAGGTCCAGCTGTCTCACGTTGTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGGTTATAAC

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FIGURE 951

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKP DWGKGY
SRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLLSDP
TYRELIEQLRNKPSDLGTLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPD LALEEKNKGNECFQKGD
YPQAMKHYTEAIKRNP KDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
YQKALDLDSSCKEAADGYQRCMMAQYNRHDS PEDVKRRAMADPEVQQIMSDPAMRLILEQM QKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

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FIGURE 952

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCTCGCAGCCCCGCCGTAGCCGCCTCCGAG
CCCCGCCGCCACATCCTCTGAGAAGATCGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTGGCTTAATAAAGCTTGATTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTTCCTTCTCACCTAACACTGGGAAAAAAATGCTAAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACGCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAACTGACACTGTGAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAAATTTAGTGTATCTTTTAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTGAGCTTTAAGATGTTACCCCTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAGGTCCTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCTGAGAATCGAACCTTGGTTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAAACTCAGCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCCAACCCAGTTCATCATCATC
TCTTTTACACCAAAAGGCTGTCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTGTGTTTTTTTTTGGCCCTTGCAACAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCACCTCAATTTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGTTGAATTAGATCCTCCCTTCAAATGCTGTAATTAACAACACTTAAAAAACTTGAATAAAATATTGA
AACCTC

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FIGURE 953

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLTKSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPTGKKNAKIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFE TAKSRVTQSNFAVGKTD E FQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 954A

CGCGTGTCTACGCGGACGCACCGGCTAAGCTGCTTCTGCCGCCGCCGCCGCTGGGACCTTGCGGTGAGGCTGC
GCGGGGCCGAGGCCGCTCCGAGCGCCAGGTTTATTCACTCACCATGAAGCTGCTGCTGCTGCACCCGGCCTTCC
AGAGCTGCCTCCTGCTGACCCTGCTTGGCTTATGGAGAACCACCCCTGAGGCTCAGCCTTATCCCTGGGTGCAC
CAGCTATCAGCGCTGCCCTCCTTCTGCAGGATCTAATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAGC
AGCTGAAGGCCCTGCTCAACCACCTGGATGTGGGAGTGGGCCGGGGTAATGTCAACCAGCACGTGCAAGGACACA
GGAACCTCTCCACGTGCTTTAGTTCTGGAGACCTCTTCACTGCCACAAATTCAGCGAGCAGTCGCGGATTGGGA
GCAGCGAGCTCCAGGAGTTCTGCCCCACCATCTCCAGCAGCTGGATTCCCGGGCCTGCACCTCGGAGAACCAGG
AAAACGAGGAGAATGAGCAGACGGAGGAGGGGGCGGCCAAGCGCTGTTGAAGTGTGGGGATACGGTCTCCTCTGTG
TGACCGTCATCTCCCTCTGCTCCCTCCTGGGGGCCAGCGTGGTGCCCTTCATGAAGAAGACCTTTTACAAGAGGC
TGCTGCTCTACTTCATAGCTCTGGCGATTGGAACCTCTACTCCAACGCCCTCTTCCAGCTCATCCCGGAGGCAT
TTGGTTTCAACCCTCTGGAAGATTATTATGTCTCCAAGTCTGCAGTGGTGTGTTGGGGCTTTTATCTTTTCTTTT
TCACAGAGAAGATCTTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATCATGGACACAGCCATTATGCCTCTG
AGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGTGATGGAGAAGCTGCAGAACGGGACCTGGACCACATGA
TTCTCAGCACTGCAGCAGTGAGCTGGACGGCAAGGCGCCCATGGTGGACGAGAAGGTCAATGTGGGCTCGCTCT
CTGTGCAGGACCTGCAGGCTTCCAGAGTGCTTGCTACTGGCTGAAAGGTGTCCGCTACTCTGATATCGGCACTC
TGGCCTGGATGATCACTCTGAGCGACGGCTCCACAATTCATCGATGGCCTGGCCATCGGTGCTTCTTCACTG
TGTCAGTTTTCCAAGGCATCAGCACCTCGGTGGCCATCCTCTGTGAGGAGTCCACATGAGCTAGGAGACTTG
TCATCCTGCTCAACGCTGGGATGAGCATCCAACAAGCTCTCTTCTTCAACTTCTTTCTGCCTGCTGCTGCTACC
TGGGTCTGGCCTTTGGCATCCTGGCCGGCAGCCACTTCTCTGCCAACTGGATTTTTGCGCTAGCTGGAGGAATGT
TCTTGATATTTCTCTGGCTGATATGTTCCCTGAGATGAATGAGGTCTGTCAAGAGGATGAAAGGAAGGGCAGCA
TCTTGATTCCATTTATCATCCAGAACCTGGGCCTCCTGACTGGATTACCATCATGGTGGTCTCACCATGTATT
CAGGACAGATCCAGATTGGGTAGGGCTCTGCCAAGAGCCTGTGGGACTGGAAGTCGGGCCCTGGGCTGCCCGATC
GCCAGCCCGAGGACTTACCATCCACAATGCACCACGGAAGAGGCCGTTCTATGAAAACTGACACAGACTGTATT
CCTGCATTCAAATGTCAGCCGTTTGTAATAATGCTGTATCTTAGGAATAAGCTGCCCTGGTAACCACTCTCTAGCT
AGTGCCCTCTTGCCCTCTCCTACCTCCTTTCTCTCAGTGACTCTGGAACCTGAATGCAGCTTACAAGACAAGCC
TGACTTTTTCTCTGATTACCTTGGCCTCCTCTTGAACCACTGCTGAAAGGTTTTGAATCCTTTACCCAACAAT
GCAAAAATAGAGCCAATGGTTATAACTTGGCTAGAAATATCAAGAGTTGAATCCATAGTGTGGGGCCCATGACTC
TAGCTGGGCACCTTGGACCTCCAGCTGGCCAATAGAAGAGACAGGAGACAGGAAGCCTTCCCATTTTTTCAAAGT
CTGTTTAATTGCCTATTACTTCTCTCAAAGAGAACCTGAAGTCAGAACACATGAGCAGGGTGAGAGGTGAGGCAA
GGTTCATCCTGAATGGGAGAGGAAGTCGAACCACTGCTGTGTGCTTGTTCAGGATGCTCACTTGTTCCTACTGAG
ATGCTGGATATTGATTTTGTAAACAGCACCTGGTGTTCACGGCTGTCCGAGTGAGCTAACGTGGCGGTGTGGCTG
CCTGGACCTCCTCTTTTCAAGTTAACGCTGACAGAATGGAGGCTCAGGCTGTCTGCAAGAAAACAGTTGGTTTGGC
TGTGATTTTGACCTCCTCTTCCCCACTGCCATCTTCTAAGAGACTTTGTAGCTGCCTCCTAGAAGCACATTCTGA
GCACATTTGAGACCTCTGTGTTAGAGGGGAGACTGCACAACTATCCTCCCCAGGTTGAGACGTCTGCAGAGTG
GCAAGCTGACTTGTAGAAATGGGGTGCCATTTATGCTCTACTTAGACAAGGGTAATCAGAAATGGAATCAGTGCA
GGCAAAATTTAGGATTTGCCGCTTCCATAAATCAAAGCATGACTAATAGGGGGTCTCTGAAATGTAAGGGCACAA
ACTTCACTTAGGGCATCGCAGATGTTTGCAGAATGGTTGGCCTAATGATTATGCTACAGATGGGTTTTAAATGAC
CCGTCTAGGTTACTGCTTCTTGCAAAAAAGTGAATCCTGCATTGAATTGAATATGAATTTCTCTAACTCTCT
CCAGAAAATGGATGGAGATAACTTGTCTTTAAACTGTAGGCCAGCCTTAGCCACTGTGGAGCCCTTGCCCTCCGA
GCTCTGGCTTCAAGGGGAGCTTCTCCAGGTTCACTAGGTGAATTGATTTATTATCATATTGATAATGTGA
GATTCTTTAGCCACTTTGGGGAGCCTGTCTCTCCAGAAGCCTTTCTTAGTGGTGCCACAGTTGGAGCCCAGGGG
CCATGTTTGCAAACTGATTATGTGCATGGCTGACAGGAGTACTGGTTCACTACCAATGCCCTGAGCTTTTCTCTT
ACATAGAAAACTGTCCACTCTCAGTAATCACAAGCAGCATCCGTTTTGTTTTCTTCTTGGGAGACATCTGTC
AAACCAGGAATATTCTTGAAAAGAACGTGAGCAGGAAAACTGCTGGTGATACTTTTTTAAAGTTTGTTTTTAT
CTTGCTGTGGCTTCAATACATTTGAGAATACGCTGAAGAGGGAAAAATTCAGTGATGGAGATTCTAGATTAA
TATCAGGACTGATTTCCCTGGTGGGATTATGGTCCAGTTTTTACCAAAGAACCAATTCCTGAAATGTTGGAATCTAA
CTTTTTATATTGTCATTATTATTGTTGTTTTTAAACGGTCTTTGTCTTTTCTGTTTTATTTTCTCAAGCTGCT
TTCAGGAGCTAGCAGAAAAATAACTCAAAGTTGAAGACTCTGGAAGATTTTGCTTTAACCTAACTCGCATTGATGT

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FIGURE 954B

ATTAAATTTATAATTTTAGCATTCCCAATAGATCCTATCATTCCCTTAAACATAATACCCCTTGTCTTGGAGTAGA
ATACTAAGTTAGAGTTAGTGGATTTCTAGTTTAGGAGAGGAGCTCAAACTATAATCTTTAACAAATTGAAAAAT
GAAATAGGGTGTTTTCCCTTTTTGTGCACACCTATATTACCTTAAGAAATTCCTTCCATAGACAGCTGCCTCAA
AGGGAAATCCTCTTTAAACCGTAGTTGGCGCAGAGGTCAGTCCTAGTCGGAGCTTAGGAGGGGCGGAGACGCTCA
CATCGTCTGACTTGAGTCGCCACTGATTGTGGCAACAGCTTTGCCTCATGAGTCAAAAATTGGCAATTTCTTTTG
ATTTTAGTTGTTGAATTTGCTGTTTCAAGCATTTGTACATATTAGAAGTCTAAGGAGTAGCAAGTCAGTGGGAG
GACTTTTTACCCCTGGCATTAGCAGCTTCGACCTCATTTTCCAGATGCACCAGCTCCTATTAATAAGTTAGCAA
GGAAAGTGATGTCACGTGCAGGAACAGTGAGGCAGGGACAGGGGTTCTGCTCCTTCTCACTTCACCACCGGCAC
ACAGCTTGCCCTGTCTTTGCCCCCAAAGGTATTTTGTGTCTAGTGTCAAATTGGAGCTATTCTTCACITGGTCCT
TAACCTTGGGTTTTAAAAAGAAGGCTTCTCTGTTTGGGTAGCGTAAGAGCTGAGTATAGTAAGTCCTCTTCCAAA
GAGATGGCAATATGCTGGGCATCTACTTTAAAACAAAGTTGTCTGATTTTGCAGAGAGGTTAGGATTTTATTG
TTCTTATTTCCCTTTACAGTTCTGCAGTTCCATCACAGTATTTTTTAAATAACTCAGGTGTATGAGCAGAAAT
AGAAAAGAAAATTAACCTATGTGGACTGTAAATGTTTTATTGTAGATTCTATAAATAAGCTATATTCTGT

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FIGURE 955

RVYADAPAKLLLPPPAAWDLAVRLRGAEAAASERQVYSVTMKLLLLHPAFQSCLLLTLLGLWRITPEAHASSLGAP
AISAASFLODLIHRYGEGDSLTLQQLKALLNHLDVGVGRGNVTQHVGQHRNLSTCFSSGDLFTAHNFSEQSRIGS
SELQEFCTILQQLDSRACTSENQENEENEQTEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMCKTFYKRL
LLYFIALAIGTLYSNALFQLIPEAFGFNPLEDYYVSKSAVVFGGFYLFFFTEKILKILLKQKNEHHHGHSHYASE
SLPSKQDQEEGVMEKLQNGDLDHMIPQHCSSELDGKAPMVDEKVIVGSLSVQDLQASQSACYWLKGVRYSDIGTL
AWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDVILLNAGMSIQQALFFNFLSACCCYL
GLAFGILAGSHFSANWIFALAGGMFLYISLADMFPENVEVCQEDERKGSILIPFIIQNLGLLTGFTIMVVLTMYS
GQIQIG

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FIGURE 956A

GCTAAGAGGAGTCCCTGTGTGGGCAGCTGGAGCCTTCAGATTCTCTTCAGGGGAAGAGTCCACATCCCACCTCAT
CATGTCCCAGGAAGCCAGCGCCTCACGCGCTACTCCCAGGGTGACGATGACGGCAGCAGCAGCAGCGGAGGGAG
CTCGGTGGCTGGGAGTCAGAGCACCTGTGTTAAAGACAGTCTCTCAGGACCTTGAAGAGGAAATCCAGCAACAT
GAAGCGCTGTCCCCAGCGCCACAGCTGGGCGCGTCTCTGATGCACACCTCTACTACAGTGAGTCGTGGT
CCACGAGTCTGTTTCCCACCCAGGAGCTCCCTGGAGGAACTGCATGGTGACGCCAACTGGGGTGAGGACCTGCG
GGTGCGGAGGAGAGAGGCACGGGTGGCTCAGAGAGCAGCAGGGCCAGCGGGCTTGTGGGGCGCAAGGCCACCGA
GGACTTCTGGGGCTCTTCTCGGGCTACTCCTCTGAGGACGACTACGTGGGCTACTCGGATGTGGACCAGCAGAG
TTCCAGCTCGCGGCTCCGAAGCGCGCTCTCACGGGCGGGCTCCTTACTCTGGATGGTGGCCACTTCGCCAGGCCG
GCTCTTCAGACTTCTCTACTGGTGGGCTGGCACCACCTGGTACCGCTGACCACAGCTGCCCTCCCTCCTTGACGT
CTTCGTTTTAAACAGGCGCTTCTCGTCCCTGAAGACGTTTCTCTGGTTCTGCTGCCGCTGCTCTTGCTGACGTG
CCTGACGTATGGTGCTTGGTATTTCTACCCCTATGGGCTGCAGACATTCCACCCTGCTTTGGTTTCTTGTTGGG
AGCGAAGGACAGCAGGAGGCCGATGAGGGCTGGGAAGCCAGAGACTCATCGCCACATTTCCAGGCTGAGCAGCG
TGTTATGTCCCGGTACACTCTCTGGAGCGCGCTCTGGAAGCTCTTGCTGCTGAATTTTCTCCAAGTGGCAGAA
GGAGGCCATGCGGCTGGAACGCTCTGGAGCTGCGGCAAGGGGCTCTGGCCAGGGAGGTGGTGGTGGCCTGAGCCA
CGAGGACACCCTGGCGCTGCTGGAGGGGCTAGTGAGCGCGCTGAAGCTGCCCTGAAGGAGGATTTCCGCAGGGA
AACTGCTGCTCGCATCCAGGAAGAACTGTCTGCCCTGAGAGCAGAGCATCAGCAAGACTCAGAAGACCTCTTCAA
GAAGATCGTCCGGGCTCCCAGGAGTCCGAGGCTCGCATCCAGCAGCTGAAGTCAGAGTGGCAAAGCATGACCCA
GGAGTCTTCCAGGAGAGCTCTGTGAAGGAGCTGAGGCGGCTGGAGGACCAGCTGGCCGGCTGCAGCAGGAGCT
GGCGGCTCTGGCACTGAAGCAGAGCTCGGTGGCGGAAGAAGTGGGCTGCTGCCCCAGCAGATCCAGGCCGTGCG
GGACGACGTGGAATCTCAGTTCCCGGCTGGATCAGTCAGTTCCTTGCCCGAGGTGGAGGGGGCGCGTGGGGCT
CCTTCAGAGAGAGGAGATGCAAGCTCAGCTGCGAGAGCTGGAGAGCAAGATCCTCACCCATGTGGCAGAGATGCA
GGGCAAGTCGGCCAGGGAAGCCGCGGCTCCTGAGCCTGACGCTGCAGAAAGAGGTGTGATTGGAGTGACAGA
GGAGCAGGTGCACCACATCGTGAAGCAGGCCCTGCAGCGCTACAGTGAGGACCGCATCGGGCTGGCAGACTACGC
CCTGGAGTCAGGAGGGGCCAGGCTCATCAGCACCCGATGTTCTGAGACCTACGAGACCAAGACGGCCCTCCTCAG
CCTCTTCGGCATCCCCCTGTGTTACCACTCCAGTCACCCGAGTCATCCTCCAGCCAGATGTGCACCCAGGCAA
CTGCTGGGCCCTTCCAGGGGCCACAGGGCTTCGCCGTGGTCCGCTCTCTGCCCGCATCCGCCCCACAGCCGTTAC
CTTAGAGCATGTGCCCAAGGCCTTGTCACCCAACAGCACTATCTCCAGTGCCCCCAAGGACTTCGCCATCTTTGG
GTTTGACGAAGACTGCAGCAGGAGGGGACACTCCTTGGAAGTTCACTTACGATCAGGACGGCGAGCCTATTCA
GACGTTTCACTTTCAGGCCCTACGATGGCCACGTACCAGGTGGTGGAGCTGCGGATCCTGACTAACTGGGGCCA
CCCCGAGTACACCTGCATCTACCGCTTCAGAGTGATGGGAGCCCCGCCCCACTAGCCCTGCTTACTGGTGCCTGC
TGCCAGCCATCTGGGAGTGGGTGAACAGCACCCCGCCGCTTCCCCACACGCTTGCTCGGCGCTCTGACTTCTAG
GAGCACAAGAGAGGAGCCTGTGGCCCCATGCAGATGAAAAGGACGGGCAGGGTCTCCTGAGCAGCAGGTGGCTCG
AGGCGGTTAGCAGGCTCCAGCAGCTCCCTTCTTCTTCTCTGTGCCCGTGGCGTCTGCTTCCCATCCTGGGAG
TGTGTATATATGTAGCATATCATGGGGGACTGGGAAGTTGGGAGAGGTAGGACCTGACTGGTCTTGGCTGGGGTC
AGGGGCTGGTGCCTGGGAGCTGATGAAGCAGGTGCCAGGGCTGTGGGAGGGGCAAGCTACGGCCTGGGCTAGGTG
AGCTGCCTCTGCCCTGGGCAAGGAAGCGAGGCCCTCTGGGAGGAGGGTGTAGCTCCAGAGCAGGATGGGACT
TCCCCAGGCAGGAAGCACTTGATGGAGAGCTGCCAGCTCTCCTACAAGGTTAGTGCCCTCCACCTAGGGAAGCC
TGAACCACAGGGTCCCTGAGGGCCTTCGACAAAAGTGTGTATTTGTCCGGGGAGGGTAGCAGTGGGCCATGGGG
CTTCTTGTGCCCTAAAGGGGACTGGCTGCTGTGATCTTCTAAGGGGCCCAGGGCCAACCTGTAGGCTTCCCCTC
TGCTGGGGACGGTAGTTGCTTTTCTCTCTCTGATGCTAGGTTGGGGCCACCCTGCTCCTGTCTCTGCTAGGG
CCTGCCAGTGCCCCTGAGCTTGTCTTCCACATTCTCCAGGGTATGGAGACCTAGACCTGTCTTTGGGGCCATTA
GCATCTGGGGTTATAGCAAGAAGAGTGGGGAGCATGGAACCTCTGGGCTCTTGTGGGGACGTTTCAAGGTATCGGG
GTGCGAGGTCTGTCTGCACCGGCCCCCACATCTAACCAGGCCCTGATGTAGGGGTCGTCCGCTCAGGCTGCCCCC
TTGGGCTCTTGCAGCTCTTGTTCAGGTAGTCGCCCTCTGGTTTGTCTCTGTGGGGCAGTTGGTGGGGGCTGGG
GGAAGAGGCTGGCAGAAGTTACCCTGGATAGGGAAGGGGGAGGAGGGGACTTTTAGAGCCAGCAGGCCCCACTGT
ATTATGTATATATTTTCAAGGCTGTTTTCTAAGTGAAGGCTAAGGGCTTGATTCCTAGCCCCGTCTGTGTGG
GGCACTGGGTGATACTCAGTTTCTTGTTCCTGGCGTGGAGAGGGGCTGGGGCACTGGTTCCGGCTGTGTCTGG
TGGTCCGGCTGCAGGGAAGGGGCAAGAAGGCGGGCAGGCCCTTCACTGCAGCACTGAGCCTCAAATCCGCTCTGGA

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FIGURE 956B

GCATGAGGCTGGATGCAGTGGTGGTGAGGCCGCCCCGCTCCATCCCGAGGCAGCCAGGCTTTGTTTTGCGCTCTC
CTGTCACAAATGCTGCACTATTGGTTCTTAAGTTTTTTATCTCCAGATCCTAATTTATGCCTATGCAAAAAATAA
ATGACGCCCAAGAGCTG

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FIGURE 957A

GTAAGATTTTTAAACCAAGGAATGACTGGGCTATCTATAAACCCAGATGCACTAAGTGGGGAGAAAAGCTCGGAG
CTGCAGCATATCAGCTTTGTCAACCTGCCAACAGCAGAGCGTACCATGCTGCAAGGAGTAATAACAAGGAATTA
GAAAACCTCGTGCTGGAGAACAGTCAAATTAACACCTTTTTGAAAGGATGAGCATGTATATATTGCAGTTCTAT
TAAATGTAGCTTCTTAGTGAGGTTGGCATTATGTTAAGGCTGGTATGGAAGAGAACTGATGAAGCAGGAGTGGTC
TGGTGACATTTTTCTGACTTGATTGGCTGGGGCGTGTATGTAATAGGTTTCAGTGCAGCCCTTATAGGTTTTA
AAATGAATTCCAAGACACCATTACAAAGAAAGCCGGACTCTTTCTTATAACTGAGCTCAGCCAAGGAACTCTT
GCACAAATGTACAATACTGTTTGAATATGGAAGACCTGGATTTAGAATATGCCAAGACAGATATAAATTGTGGC
ACAGACTTGATGTTTTATATAGAAATGGACCCACCAGCACTGCCTCCTAAACCACCAAAACCTACTACTGTAGCC
AACACGGTATGAATAACAATATATCCTTACAAGATGCTGAATGGTACTGGGGAGATATCTCGAGGGAAGAAGTG
AATGAAAACTTCGAGATACAGCAGACGGGACCTTTTTGGTACGAGATGCGTCTACTAAAATGCATGGTGATTAT
ACTCTTACACTAAGGAAAGGGGAAATAACAAATTAATCAAAATATTTTCATCGAGATGGGAAATATGGCTTCTCT
GACCCATTAACTTCAGTTCTGTGGTTGAATTAATAAACCACTACCGGAATGAATCTCTAGCTCAGTATAATCCC
AAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTTGTCAAAGAAGATAATATTGAA
GCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAGTCGAGAATATGATAGATTATATGAA
GAATATACCCGCACATCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCATTTAATGAAACCATAAAAAATA
TTTGAAGAACAGTGCCAGACCAAGAGCGGTACAGCAAAGAATACATAGAAAAGTTTAAACGTGAAGGCAATGAG
AAAGAAATACAAAGGATTATGCATAATTATGATAAGTTGAAGTCTCGAATCAGTGAAATTATTGACAGTAGAAGA
AGATTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTATCGAGAAATTGACAAACGTATGAACAGCATTAAACCA
GACCTTATCCAGCTGAGAAAGACGAGAGACCAATACTTGATGTGGTTGACTCAAAAAGGTGTTCCGCCAAAAGAAG
TTGAACGAGTGGTTGGGCAATGAAAACACTGAAGACCAATATTCACTGGTGGAAGATGATGAAGATTTGCCCCAT
CATGATGAGAAGACATGGAATGTTGGAAGCAGCAACCGAAACAAAGCTGAAAACCTGTTGCGAGGGAAGCGAGAT
GGCACTTTTCTGTCCGGGAGAGCAGTAACAGGGCTGCTATGCCTGCTCTGTAGTGGTGACGGCGAAGTAAAG
CATTGTGTCTATAACAAAACAGCAACTGGCTATGGCTTTGCCGAGCCCTATAACTTGTACAGCTCTCTGAAAGAA
CTGGTGCTACATTACCAACACACCTCCCTTGTGCAGCACAACGACTCCCTCAATGTACACTAGCCTACCCAGTA
TATGCACAGCAGAGGCGATGAAGCGCTTACTCTTTGATCCTTCTCCTGAAGTTCAGCCACCCTGAGGCCCTCTGGA
AAGCAAAGGGCTCCTCTCCAGTCTGATCTGTGAATTGAGCTGCAGAAACGAAGCCATCTTTCTTTGGATGGGACT
AGAGCTTTCTTTCACAAAAAGAAGTAGGGGAAGACATGCAGCCTAAGGCTGTATGATGACCACAGTTCCTAAG
CTGGAGTGCTTATCCCTTCTTTTTCTTTTTCTTTGGTTAATTTAAAGCCACAACCCACATACACACAAAGAG
AAAAAGAAATGCAAAAATCTCTGCGTGCAGGGACAAAGAGGCCTTTAACCATGGTGCTTGTTAATGCTTCTGAA
GCTTTACCAGCTGAAAGTTGGGACTCTGGAGAGCGGAGGAGAGAGAGGCGAGAAGAACCTGGCCTGAGAAGGTTT
GGTCCAGCCTGGTTTAGCCTGGATGTTGCTGTGCACGGTGGACCCAGACACATCGCACTGTGGATTATTTCAATT
TGTAACAAATGAACGATATGTAGCAGAAAGGCACGTCCACTCACAGGGACGCTTTGGGAGAATGTCAGTTTCATG
TATGTTTCAAGAAATCTGTCTATAGAAAGTGCCAGAAAGTGTTTAACTTGTCAAAAAACAAAACCCAGCAACA
GAAAAATGGAGTTTGGAAAACAGGACTTAAATGACATTAGTATATAAAATATGTACATAATATTGGATGACTA
ACTATCAAAATAGATGGATTGTATCAATACCAAAATAGCTTCTGTTTTGTTTTGCTGAAGGCTAAATTCACAGCGC
TATGCAATTCTTAATTTTCATTAAAGTTGTTATTTTCAGTTTTAAATGTACCTTCAGAATAAGCTTCCCCACCCAG
TTTTTGTGCTTGAATAATTGTTGTCGGGATTTTGTAAATATTCATTTTTGTATCCTTTTTTAAAGTAAA
TGTACAGGATGCCAGTAAAAAATGAGTTTCAAGATTAACAGATTTTTTTGGACTGTTTTGTGGGCAGTGC
CAGAGTACTTGGCTGTTAGCCCAAGGTTAAAAAGTTCATAACAGATTTTTTTGGACTGTTTTGTGGGCAGTGC
CTGATAAGCTTCAAAGCTGCTTTATTCATAAAAAAAGAAATGAAAAGATATATGAATATGACAAAGTATTGC
TGAGTCCAACAATGTTGTTTTAAGACTCTTAAATACGGTACCTGGCAATGTTTATTCATAAAGAAATGTGAAC
TTCTTGAATCTAGGGAGGGGAATGTAGTGAAGGATGTATCAAGTGGGTGGTGGGAGGGGAGGCAAGGTTAT
ATGCACCTTCTCATGATTACAGAGAAGTGAATAACTGCAAGTGAAGTTGCTTCTTCTACTTCAGTCTTCTCTC
ACTTTGATTGTAGTTGTTATCAATTAATGACAATTACAAACCTACTGTATCTCTAATACAGTGTGACTGGTCA
GGTATTTTCAGTTCTTAGGAAGGAAGTGCAAGTTGTTTTGGGTTCTGGAACAGCGCTCACCTTTGTTTAGAA
CACTGGTTTAAAGGGATAATCATCTCTGTACATTAGACTATCCATCATGACCAGCAAATACTCATTTAGGAAA
AAAAAAGCATGATCTGAAAAATACTTTTGGTGGTATGTTGGTTACCCTCCTAGCTTTCCATTGGTTTAGAACA
TAAAGCAAATAGACACAGTCATACTGTCACTGCTCTGGACTGTGTGGAGCTCGCTAAAGTCATGGTCATTGCAGG

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FIGURE 957B

AATCCAAGTGGCAGTCCTTCTCATTCAATCATTGTATGTGCTTCACTACGGGGGGGAGAAGGAAACGTTA
GCATCATGTTTCCCATTAGGGCAGGAGTGAGAGGTCTCTTCTCTGATTAGATATGCAAAAGCTGGTATGTTT
AGTAGGAAGTGTACATGTGTTGGGAGGCATAAAGACTAATTAGCAACCATAATATGGTCACTACCCTAATAGACT
AAATGAAATCTTGCAATTTCAAATTACTCTTTCTCCATATTAGATTTACCCACAGCTATATTTCTGTTTAAAGTAC
TAGGGTGAGGGTTTTCTGTTACTTTGTTTTTAATGTTGTTCCCTTTTGAAAGAATCAGTCTTGAGCTGAGTGAA
AAATCTGTGGAATGIATTATTTGTCCTCTTACATGAACTACTCATACTTAAGCAAAAGTCAGTCTTATAGCAA
GACTGTTAGCCCTCAAACCTGACTCTACTGATCTGACCATTTCCCTCTCATCGCCAGACAAGTACGATTTCCCT
GGTTTTAGTCTGCGTCTCTGCTTTAAAGTTATTGTGATATCCTTCTAGATCATAACAAGTCTAACAGTTAATTA
GTTAACAGTTTTTAACTAGGTTTGTTGGGTATTTTTTGGTAGCACATGTATGCTATTACATACAAATTTTTATT
TCTAAAATATAAGATCTGAGATTGAATATTTTCATTAAGGCTACAGTTTTGTGAATCTTTGTGCTTCAACATTC
TTTGCAAGATGATACGGTATTTAGGCATTTGCCTTATTTTTGCATCTCACAAACATAAGTGAATAGATCTTTTC
ATTGAACAGCAAAAGTAGGATTCATCATTCCATATGACTTGAGTTACACCAGACCTGTTCTGCCCAATGCCTTTTT
GATTACAGTGTAGCTTGCCCAACCGCATTTGTCGTTTTAGATACTTTGCTAGCCGGCCACTTTGGATTTTCATCAGA
CAGTCCTAACAAATATTGTCTGAACGGCTGAATATGAATAGATACAGCAGAGGCACTCCTGATATATGATTTTTAT
CCATGCGTCAGTTTTTCCCAACCCAGTGTAGCATCCTAAAGATAAAGCCAGAAGCTAAGCTGCAGTGAGGCTGTGA
TTGGGCGTAGAAGTGGGAGCATTTGGGACCTCACATTACACACACGAGAGATCATAACCATGTGAAAAGGCCAAAA
GCATGTGTTTGCAACATCTGATACTTCATGGCCTTTGATAAATGTATATATGTATATGTGCATGGACTGTGTTT
CCAGTACACCTTTAGCCAAAACAGATCCACAGTAGTTGTTGAGTTCAAGTACATAAAGTACATAACAAGCGAAC
GTCTAGTACAATTCTTACTTATGTGTATGGGATTTTTCCCTTTGAGGTTGCTTTGTTTTGTCTTACAAAGGTGAA
AATTGTTTGTAGTGAAGTGAGAAGTTCAIATTTCTTTGGCTTTTTTGTGTTTTTAAAAGTTACTCCTTTTAGGG
AGCTGGTCTGATGACTTGCTTAGCTTGAAATCCTTGTTTTAGTGTGTCGAGTCAAATGTGTTTATGTGAGCT
GTCAGTGTGGGGAACCAATTGCTTTGTCATATAGCTGGTTATGAACTAGTAACATGTTTGGGAAGTCCTACTGAT
GTTCTTTTGAAGAAAAAATCTGCTGGTTTTAACAACTGTGCTTTTGCTATGTATGGTATCCAAGTTAGTTGAAA
TGCAGACACTGAGATCTGTTTGAAGTTAGGGTCATTTTTAGAAAGGGGCAGTTTAAAGCACAAATGTCTCACATGG
GACAAAGTTCCAAAATGCCAAATCTTATTTTTTAAAAGCTAGTTCTATAAAATAGTGGTATTATGGGTGGGGA
GGAAATAGAAATTGAGTCAATTGGAAAGACTATCCAACCTAACATGAAACTTGTCAACCATGAGATAGCATTAGCTG
CCCAGGATGCTGCTATATATATATATGTATT

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FIGURE 958

MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNISLQDAEWYWGDISREEVNE
KLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFSSVVELINHYRNESLAQYNPKL
DVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSDREYDRLYEYTRTSQEIQMKRTAIEAFNETIKIFE
EQCQTQERYKEYIEKFKREGNEKEIQRIMHNYDKLSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDL
IQLRKTRDQYLMWLTQKGVQRQKKNLNEWLGMENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGT
FLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYA
QQR

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FIGURE 959

GACCGAAGCAAGAGCTGGTTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGGAGACACTGGGCCCCGCGATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCTCACAGCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCACCGTGGTGACAGGCCTGGGACCAGACACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGCGGGAGGCCGCCCCACCTCAGCCCATGGTGGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGACAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCCTGGGGGTCTCTCTCTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCCATGGAGGAAGTGGAGCGGC
AGGTCTCTCCAGACCCCGAGGTGCTGGAAGCTGTGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCTCTGACAGTGTCCCCAGCCTGCAAAACATGGGTCTTCTGCTGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCAGCTGCAGGCCCAAAAGGAAGAGCTTCAGAGCCTGATGCACAGCCCAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGCTCTGCAGCAGGGCGAAGCCTCCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGCTCCAGGGGTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGTTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGAGCAGGAGCCAGAACTCAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCAGCGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTGCAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGCCACAGATTGGGCCAGAACTGCAGGGCCTGGAGAAGTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCCTCCAGAATTCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCCGAAGGCTGAGCACTGGAACATAAGAAGGAAGAATCTGGCCGGGAAGGAAGAAGAACTGGG
GAGGTGAGGAGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTCCGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGCTGCTCAGGTGTGGACGAGTGTGCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCTCCGCT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGAAG
TAGATGACTTTGAGGACTTCTCTTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCAAGAGCTGCGGGGCCAGGGAGGGGCACAGCCATAGCCACCACCACCACCGGG
GCTGACACCCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTTTGGTGTCTCAGATATCTTTACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAGGCCCTTAGCTGGACCTGCGTTGCCGTCTATGCAATGCATGCAAAATACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTGTCACTGTGAAGGGGAGATGGGAGAGGAGCCTGTTTGGGGTGGGGT
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCCATAGTGGGCCCCCTG
ACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCAGCAGGAGACTTACCCTGG
GGTTTGTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTACCCTGCTTCTC
CCACGGCTTCACTCCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTGACAGCTATGATGCTAGGTG
GTTTCTAAGCACAGGGGACACCCACACCCCTGCCGTGAATGGATGGGTCCATCCCAGGCACTGGTACTTGGCCC
CTTGTCTGTATCCCCCTTGGCCCTTGCCCTTCCAACAAACCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTGCTCACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTGATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTTTCTTATCCTCAAAAAAG
CGGATGGAAGGGCTGGGGAAGTGATTAAATAAAGCAACGCAAGAAAAAAGAAAAAAGAAAAA

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FIGURE 960

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPQSGSILT
EETEVKGTLEGDVCGVEPPGPGDTVVQGDLOETT VVTGLGPD TQDLEGQSP PQSLPSTPKAAWIREEGRCSSDD
DTDVDMEGLRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQLQAQKEELQSLM
HQP KGLEEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
PELSFLKQKEQLEAEAQALRQELERQRRLLGSVQQDLERSLQDASRGDPAHAGLAELGHRLAQKLQGLENWGQDP
GVSANASKAWHQKSHFQNSREWSGKEKWWDGQRDRKAHWHKKKEESGREKKNWGGQEDREPAGRWKEGRPRVE
ESGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSDPLPSWAELLRPKYRAPQGC SGVDECARQEG
TFFGT ELAPVRQQELASLLRTYLARLPWAGQLTKELPLSPAFFGEDGIFRHDRLRFRDFVDALED SLEEVAVQQT
GDDDEVD FDFIFSHFFGDKALKKRSGKKDKHSQSPRAAGPREGHSHSHHHHHRG

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FIGURE 961

CTCTTCTCACATCAGCGGCTCCAGGCCCAACCGACAGACTATGGGGGCTCCTTCACCAGGCGCTGCGTGGAGTGG
CTGCTGGGCTCTACTTCCTCAGCCACATCCCCATCACCCTGTTTCATGGACCTGCAGGCGGTCGTGCCGCGGAG
CTCTACCCAGTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCC
CCAGCCTGGTTTAAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCC
TTCTCAAAGGAAGCTGCAAGTGGATTGCAACTCCTGCAATCATCTACTCTGTTTCACACCATGACAACCTTAATT
CTGATACTCTCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTG
CATGAACGGTTAACCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCATTTCATACTTTTAATTTTCATGTTG
CGGAGCCCCCTACTACAAGTATGAAGAGAAAAGAAAAAATGAAGGAAACAACCACTGGCCAGGGTAGAGAT
GCCTACAGGGTGGTTGCTTGTGGATACATACAGGAACACTGCTCAGAACCACGTCTTCAGCAGCATTTGAAAC
ACTGGCAGCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCTCACCTTCTTCCATTTTTTTTTT
TTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCC
GCCTCCTGGGCTCAAGCCATCTTCTTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCT
AATTTGTTTTGTTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGG
CTCAAGTGATCTGCCCACCTCAGTCTCCCTAAGTGTGGGATTACAGACGTGAACCACTGGGCCCAGCCCAAACC
TTCACCTTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATA
AGGAAGTGGTACCAATAACTGTGTTGCCTGAGTTCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACT
GCTAAAGAACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCTC
CACTCCTGATTCTCAAGAGTGTATCACCTGTGAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGA
AATTTGCTCTTTAATGTTAATTCAAACCTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAG
AGAAAACATACTATGCAAAGGAAGTTTAACTTAAGTTTTCTTAAGGGTCAGCCCAACAATGACTTTCAGTCAA
ATGGATTAACTGGAAATGTTTTGTTTTCTGTTGTAAACAGATCATCTAGGCGAAAGTTTTTTTTGTTTGT
GCTTTTAAATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCT
GAAGTCTAGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTAGCTCCCTAGTGGATAACTTAATCTTTAATACA
GTTCCGTCATTCCCCTCTTGTTCAGAAAGAGAGGTGGCTACAGCCAGGCATAACTTATCCACTGTGTGCATAG
AGGGTCTCTTACGTTGATGCTTGGCATTCCATCAGCTTTCTTAAGTCTTTGCTCAAGTTCAAGGTTAAATGA
TGTTAGACAACAGGTCCCAGTCAGTCCCCTCTATTTTACCCATTTTGCTCACAAGCCATATTGGCCCGATTAGT
GGTACTGTCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCCGGGAATT

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FIGURE 962

GGCTTACAGGAGGGCAGCTCTGCAGTTGGGAGGGGCACCGTCCGGAGGAGACCAGGCCTCTACACACCCCCCACT
CTACTTATCATCCCTGCTCACACACCCTTGTCCAAGGCTTTATGCATCGGATTATTTTTCCAAATCAAGAGGAC
AGTGATAGATGCATTTTCCCCAGGCTGTCTCAGAAAGGTCGCTAAATGTATACTGTTGTGAGAATTGCTGAGATC
TCCCCCACTTTTGGTTTTTGCAGCAGTAAAACTCTTTCCACTGTGACTTATTTTCTCTCTCAGGCAGCCAGCC
ACCTGGTCCCTTGTGCTGACTCTAGCACAGTGGCCAGGATCCAATACGAGTCCAGGGGTGACCGCAGGATGGTGG
GGGCAGCGGGCTTCTCCACCTACCCCAGCCACCAAGGCCCTGACGCACTGCCTCCTGCACCTTCAGCACATCCCT
GTGCACAGCTGGAAGGGTGCATGGCCCGCTCACCTTTGTTTCTGAGTGGGTGGAAACGCTGATGATACCAGCTCCTC
CCTGCCGTGCCCTGCCACGGAGCAGGCATTGTGAAGTGGCTGGTGGTTTGCAGTCCACGTTGGCATGGCCTCCAG
CCCAACCCACAGTGGAGACTGGAGACAGGGCAATGAGTCTGGTGGGGGCACGTGGACATGCCCCATAGGAGGGCC
CACCCAGACTTAACAGGCAAGGTCTGGGCATTGCGCGACGCAGGACTCAATGCTAAAGCAAGCCTGCCTGGCTC
TGTGCCAGGGCCCCCTCTTCTGATTACACATCCCATTTTTACACAGACCCTTCTTCTTAATAAGGCTGACAGT
TCTGTTGGCAGCCAAGAACCACACCATGAAGACAGGGAGTGAGGGGCCTTTGTGCCCAACTCCAGCACAGCTGC
GTTCTGGGGTGTGTGAGAGGCATGTTCTGTCTGTGCGCTGGTGGTCTCGTGAGACAGTTCGAGGACGGGGAAA
TTGAGGGTGGTGGGGCGTGAGGCTTATATGTGGAAGTATGAGAGTTCGCTGCAGACGGATCTGGATATAC
ACTATGTATAATTGTTACGTGTAATTTAAATATATCTGTTTGCATCGTCATGAGAAGATTATATGTAAGGCTC
TGAAGGGAGAGGGAGATGTACATTCTGCCAGGCTCCTGGGGACCTTATCCGAGTCATGAATGATGACTGTTGA
TCCAGTGGTGCAGGAAGCTACACTCCATGTGTATCACGCTTATGACTCCTAATGTATTTTTAAGGCAAAAAATG
TCAGCCGACTCCATCTTACCCCTCGATTCTCGAGTCCAGCCTTTCTGTGCCAGTGCTTCACTGAGCCACAACG
CTCTCGCCATCGGGACCCGGCTGGGCCTGGAGTCTCGGGGCACAGTTGCCATGGAGCCCTCCTGGGTCATTCTAC
AAATGTGCTGAGTGCCAGCTGAAAACCCACAGGAGATGGAGTACCTTGGCCAAGCTTAAAGAGAAGATTTCTC
AGGGTATTTATTAGTGTGTCCAGCAGGGTCAGGAAGCAGGATGGAAAGATGCATTGAGACTGTTAATTTATTAAC
AAGGCAAAATGATTTTGTGTTTCTTGATGACAGACTATTAAGTTTGGGACTTATTTTCCATTGAGAAGTTATAA
TATATATTTAAGATGATAAGTTTCTGCTTAAGTTGTGCCTTTTCACTTCAATGAGTTAAGGAGCACTAAGGGT
AATGATACCAATGAGGGTTGGTTTATTATCAAACCTGAATAGCTGTGGTTTCTCCAGTAAATATTTTCTTCTACT
GAACATGGAGCCATTATTAAGAGTTGTGTGTTTTTATTATGTACATTGTATATTTTTTGCTTGTGTTGATGTT
CTATTTTCTAATAGTTTCTTTTAGTTTCTTAAAGTTGTGATACTAGATTTAGATTCTGATGCTAACTGCAAAAT
CAGGTTGGTCTCTGCTGGGTCTCTCCTGCTTTTATTTTACTTTAAGGACAAGTGTAGTTGTGTCGCCACCACCTT
CAAAAAATGTGAAACTGCCCTGCCCTCCCTTTTTGCTGACAACACTGTGTACATTGACCACTTCTTACCATACTT
TATGTTGTAAATCAAACCTCTTTTGTGGTACATTATCTCATGCTTCTGCAAATTCGAATAAATCTATGGCTTCC
AAAAAAAAAAAAAA

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FIGURE 963

MKLMTVDPVVQEATLHVSSRL

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FIGURE 964

GCCTCACCACAGAGGCAAGACAAGGGTCCATATCGCGGCATCCGGCTCCCGCCCGTCTTCAGGAGAGAAAGAAAA
AATAAAATATACTTGGGGAAGTTGTACCTGCCAGAATTAGTAAGAGCTTTCTTTAAGAAGACATTTGTCAAACCTC
AACAAATTGAAGGTTAACACCTTAAGAGTTGTAGTTACTGACCAGAAATATGGACAGACTTCTTAGACTTGGAGG
AGGTATGCCTGGACTGGGCCAGGGGCCACCTACAGATGCTCCTGCAGTGGACACAGCAGAACAAAGTCTATATCTC
TTCCCTGGCACTGTTAAAAATGTTAAACATGGCCGTGCTGGAGTTCCAATGGAAGTTATGGGTTTGATGCTTGG
AGAATTTGTTGATGATTATACCGTCAGAGTGATTGATGTGTTTGCTATGCCACAGTCAGGAACAGGTGTGAGTGT
GGAGGCAGTTGATCCAGTGTCCAAGCTAAAATGTTGGATATGTTGAAGCAGACAGGAAGGCCGGAGATGGTTGT
TGGTTGGTATCACAGTCACCCCTGGCTTTGGTTGTTGGCTTTCTGGTGTGGATATCAACACTCAGCAGAGCTTTGA
AGCCTTGTGGAGAGAGCTGTGGCAGTGGTTGTGGATCCCATTCAGAGTGTAAAAGGAAAGGTTGTTATTGATGC
CTTCAGATTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAAACAACCTCGAATCTGGGTCACTT
AAACAAGCCATCTATCCAGGCATTAATTCATGGACTAAACAGACATTATTACTCCATTACTATTAACATATCGGAA
AAATGAACTGGAACAGAAGATGTTGCTAAATTTGCATAAGAAGAGTTGGATGGAAGGTTTGACACTTCAGGACTA
CAGTGAACATTGTAAACACAATGAATCAGTGGTAAAAGAGATGTTGGAATTAGCCAAGAATTACAATAAGGCTGT
AGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCAGGACCCCAAACGTCATTT
GGAGGAACATGTGGATGTACTTATGACCTCAAATATTGTCCAGTGTITAGCAGCTATGTTGGATACTGTCTGATT
TAAATAA

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FIGURE 965

MDRLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMFVGLMLGEFVDDYTVRVIDVFAM
PQSGTGVSVFAVDPVFQAKMLDMLKQGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQS
VKGKVVIDAFRLINANMMVLGHEPRQTTNLGHLNKP'SIQALIHGLNRHYYSITINYRKNELEQKMLLNHLHKKSW
MEGLTLQDYSECHKHNEVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL
AAMLDTVVFK

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FIGURE 966

AAGGCAACAGACTCTTTATTTAATGTGGTTTAAAATACATCAAAATCAAGTCCCTGGCTGTTGTGAATACCCAAA
GGAGACAAAAAGCTGCCAGTGCAGCTTCAAACAAGTCTGAGTGGCCGGGCTGGGCCATAAGGAAAGCAGTTACA
GGGACAGAAGGCAGCTCCCTTCCCCCAGGAAGGGCAAGAGGAGCAGGTGCCTGGCTGTCCCTGGGGTGACCACCT
CTGTGCTGTGCAAGGCGGAAAGGCTGGGGCAGCAGCTGGAGAATCAGCTCAGCAGGCCTTGGCCCTCCCCCGTGG
ACACCAGGCAGCTCCACTGGCCTCCGGGTGAGCCCTCAGGGCCACCGTGATGGGGTGGAGGAGGGTTAAATAACC
ATCTTTACAGAAATAACAGTCTCCTACAGAAAGTGCCTGAGCTCAGCCCATGGTCCGATAACCTCATGGAACA
AACACAAATAAAAAAAGTGTGCTGACACCTCTCAGAACTGGTGGACATGAAGCTCTCAGCTGGACAAG
GCCCTGAAAAAATTTACTATTAGCAGAGCCATGCGCTCTTGAGCTTCACCTGCTGTGGTCCCTGGAGGAAAAG
CTAGCAATCTAAGAAACCAACACAGATCTTGGTCCTAAACTGAGGTCAAGTGTGGGACCCACCCAGGTGAGG
AAGACTGGCCTTCACTCATGGATAGGCACCTCCCCTGCATCTGGCCCAGGACCTGGGCTACTTTGGAAGCAG
AAGCAGAGCAGCTGTAGTGATTGGTTGATTGGTCAATGAAGAGAAGAAAXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXAAGGAGCCTCCAGAGCAGCTAGGAGGGCCTGAGCTGACCAAGCAAGCCCTG
CTCACAAGACAAATGCAGTCAAGACCTGGGTGTATTACTTGTCTTGAGCTCTGAAGGGCAGGGAGGGGTCTGAGC
CTCAAATCAGACAGAGAAATGCTCAAGTCACTTCTGCCAACTCACTGTGATGGCAGCTACAGATGACAGCCCTC
TCAAGACTCTTCAGCTCACAGACAAGCCACTGACTTCACTGTACACACCCCCATCCCCAATGCAAGCCCACTGT
ACACTTACAGGTATAAATGCATTGCAAGGCCTTGCAAAATGCCCTATGTACGTAAACTGACCCACAAAATCCA
AAATTGCAAGTGCCAGATGCCAGCCAGGTGAGAACATCCTGGCTTCAGCAATGGGCTGCTCAGCATGGGAGCCTT
TTATGGGCCAGGCCTGGCTGGGCTGCCGCTCCCTCCCAGCATGACCCAACACCAGGCTCTCTAGGCCCTGGCGG
AGGTGGGCTCTTGAGGCCAGTCTGGCCTGATGCTTCTGTGCTCGGTGCTCCTGGGTAGCAAGGCGCTTCTGTGA
CCCTGGGGGAGCTGGGTGCTTGAGCCCCAGGCCCTCTGGCCTCCTCTCAGGGCCACTGTGAGTGGGAGCCCT
GGCCACCAGCACTCAGGTCTGTACCTCTTGTTCAGGTCAATGCGCTCTGTCTGAGTGGCCGGCAGACTTCT
CCAGCCGTTGGATTTTACCTGCAGGCCCTCCAGTCTTTATCCCGACTGTTTTCTCCTCAGCCATCTCAAGCA
GGGCTTGTGTGCTCTCCACCGGGACCGGTACATGGTGGTTCTTTCTCCAGCTTCTTGATCTTCTTAGTCA
TCTTTTCCATCTCCTGCTTGAATGTGGTGAATACCTCGCTGCTTTTGGAAAGTGTGTTCTGGAACCTCTCAAACT
TCTCTGTGTATAGGGCAAGCTGTGCTTCAGGTGGGTCTCTTGCTGCTTCATCAGCTCACACATCCTCTGGGACT
CTACTGCCTCTTTCAGGAGAAAATCCTTCTCCCGCTGGTGCCGCTCTTCTGCCTCCTTTAGCATCTCCTGGGCCT
GCTGGAGCTTGGCATCCACCAGCTGCTGTTGTAGGTCTTGTGTTGAAGACTTTGTGATATGCTCCTCGCGCA
GCTCATACTGCTCAATCAGCTTCTTGAGCCTCTCAGCCAGCTCCATGTTCTCTTGGCGCAGCTTGGAGTTGCGCT
CATGTGCTGTTCCATCCGGACGCTGGGTGAGGTGAGGGATC

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FIGURE 967

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCGGGGGCTGCACCTGCCTTGCTTTGCCTAAGG
CGGATTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTACAAGCTTTCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATG6C
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCGGGATGGGGTAAACTGGGGTCGCAATTGTGGCTTTTTCTCTCTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGAACTCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACAGACACTGACCATCCACTTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCAACCTCAGTTCCTTG
GCCTCAGAAATCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCTTAGCCTCCCTGAAAATGTTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAAGCCTCTTCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCTCAGAAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCTAGTCCC
TCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCCTTGGGCTGCTCCTCATGGTGGGTTGAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCCTCCCTCTCTCTTCTGCTCCACCCTTGGCTGTCTATCCCCAGGGGTCCCAGCCACCCGGGCTCTCTGC
TGACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 968

MSQSNRELVVDFLSYKLSQKGYWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 969A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCGG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGGGCGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCCCTCAACATGGACGAGGCGGCGCGGCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
ACGCTGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAAAATCTGTTCCAAGTGA
AGCAAAGGGACAGTGAAGGAAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCACTGTTTCTGCTGTAATTTTAAAGAAATGAACCCATTTTTCAGGACATCTTTAAATACCCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCATGATTAGTGATGATTGGTCAATTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTTATGGAAATGCACCTTCAGTGTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTGTATCATTGAG
AAACTGTGTTCCCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCCATATT
AGGAACTTTATGAAAAAAGCTCCTTAAGGGAAAAGAAGAAAATCTCACTGGGTTTCTAGAACCTGGGAACCTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGGAGAGGATGCTGAGGAGGAAATGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCGAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTGAAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATGGCAGCAACATTTTCGTTTTGCGGAGATGCTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGGCCTGCTGCCTTGGGTGCTCACTTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTGATGTGCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGGCATGGAACACAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAACAGAGTTCCTACATGTGAAGAGGTATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCCCTTGGACTCCAGAAAGGTGACTGAAGTTCGTGCTGAT
ACTGGAGGACTTGAAGGAGCATAACATCTCCAACACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTTCTGTACACACAGTTCCCTGGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACATGGGCAACCGGTAACCATTCCTGTGCAAGGTATTGCCAAT
GAAATGGAGGGATAACATTTCTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGTCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
GATCTCTGTGCCAAACTAGATATTTTCAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTGAACTTATGATGGACAGACATCTGGACAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCTTCCAGAACATTATGCGTGTATTATAGGACTCAGCCGCGAGGCCGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAAGAAAAAGAAATCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTCACTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAAATGAAACAATGCTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTTCTTTTGAAGATGGAAGTGAATCACCTGCAAAAAGAAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTAATGCATCTAGATTATGGAGCTTTTTTCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 969B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACCTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAAGTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCTCATAAAAAGCAAAACA
AAAATTAGGTATTTTGTCTAAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTTCCCTCTCCCCATTCGG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGTCTGTATATTTGTGATAGCACTTCTACAATGTGAAC
TTTATTAAATACAAAACCTCCAGGCTAAACATCCAATATTTCTTTAATGCTTTTATATTTTTTAAATGTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCTCCAGTTTTTTGTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTTATGACCTCTTCCTTTAGGAGGGAGTTATCT
AAAAGAAATGTCATTAAGGTGATATATTTAAAAATATTTTGGGTGTTCTGGCAGTTTAAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAGTTACTAGGTAACCTTCATATTGCTGAGAGAAATATGGAACCTTACATT
GTTCAATTAGAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTCAATAAAGCATTTATAAATTAAAAA

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FIGURE 970

MPSSGGDQSPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQQRFDELCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLF IYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NF KGLSEDFHAKDSKPSSDPPCI IEKLCSLHDGLVLEAKGIKEHF WKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAE EEEIGTLSRCLNAGSGT
ETAERVQMKNILQQHFDKSKALRISTPLTGVRYIKENSPCVTPVSTATHSLSR LH TMLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQHFPDEDFSNCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGDM DLSGILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPFITEIFDVPLYHFYKVIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEIC IAGSPLTPRRVTEVRADTGGLGRSITSP T TLYDRYSSPPA
STTRRLRFVENDSPSDGGTPGRMPPQPLVNAVFPVQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQQVTGTTLQVP GQVAIQQISPGGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWTCTFEFSIIQCP ELMMDRHL DQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVL IKGKRKRNRSGSSDSRSHQNSPTELNKDRTSRDSSPVMRSSSTL
PVPQPSSAPPTPTRLTGANS DMEEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHVPYISPHKNETMLSPREKIFYFYSNSPSKRLREINS MIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

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FIGURE 971A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCGCTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCTCAACATGGACGAGGCGCGCGGCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
ACGCTGGAGGAAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAAAATCTGTTCCAACGTGA
AGCAAAGGGACAGTGGAAGGAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCACTGTTTCTGCTGTAATTTTAAAGAAATATGAACCCATTTTTCAGGACATCTTTAAATACCCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGCGCAGACCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCATGATTAGTGATGATTGGTCAATTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACTTCAGTGTTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTGTATCATTGAG
AAACTGTGTTCCCTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCCCTATATT
AGGAACTTTATGAAAAAAGCTCCTTAAGGGAAGAAAGAAATCTCACTGGGTTTCTAGAACCTGGGAACCTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTAGGTACATTAAGGAGAATAGCCCTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTCACACCATGTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGCCCTGCTGCCTTGAGGTGCTCACTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTTGATGTGCCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGGCATGGAACCCAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAACAGAGTTCCTACATGTGAAGAGGTGATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCTTTGACTCCCAAGGGTGACTGAAGTTCGTGCTGAT
ACTGGAGGACTTGAAGGAGCATAACATCTCCAACACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTCTGTACACCCAGTTCCTGGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACAATGGGCAAACGGTAACCATTCCTGTGCAAGGTATTGCCAAT
GAAATGGAGGGATAACATTCTTCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGTCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
GATCTCTGTGCCAACTAGATATTTTCAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCCCTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGCAGGCCCCGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAAGAAAGAAATCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTCACTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAAATGAAACAATGCTTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCCCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTCCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 971B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAAGCTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAACA
AAAATTAGGTATTTTGTCTAAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTTCCCTCTCCCCATTTCGG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGCTGTATATTGTGATAGCACTTCTACAAATGTGAAC
TTTATTAAATACAAAACCTTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTAAATGTTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCCTCAGTTTTTGTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTTATGACCTCTTCCTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATTTAAAAATATTTTGGGTGTCCTGGCAGTTAAAAAAATTGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTTCATATTGCTGAGAGAAATATGGAACCTACATT
GTTCAATTAGAAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTTCAATAAAGCATTATATAAATTAAAAA

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FIGURE 972

MPSSGDQSPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQRFDELCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRQPCTVSEIFHFCWVLF IYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NF KGLSEDFHAKDSKPSSDPPCI IEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEYVLSVGNLDERIFLGEDAE EEEIGTLSRCLNAGSGT
ETAERVQMKNILQOHFDKSKALRISTPLTGVRYIKENSPCVTPVSTATHSLSR LHMTLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQH FQPD EDFS NCAKEIASKHFRFAEMLYYKVLESVIEQE QKRLGDM DLSGILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPF ITEIFDVPLYHFYKVIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEIC IAGSPLTPRRVTEVRADTGGLGRSITSP T TLYDRYSSPPA
STTRRL FVENDSPSDGGTPGRMFPQPLVNAVFPVQNVSETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQVGTGTTLQVPQGVAIQQISP GGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWT CFEFSIIQCP ELMDRHL DQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIKGRKRNRNSGSSDSRSHQNSPTELNKDRTSRDSSPVMRSSSTL
PVPQPS SAPPTPTRLTGANS DMEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHVYI SPHKNETMLSPREKIFYF SNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

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FIGURE 973

TGGGCAATTAACCAAGCCATAGCCAATGAATATGAAGTCCGGAGAAAGCTGCTAATAAAACGTTTGGATGTCAC
GTACAATCCTTTGGCTGGTCTGACAGAGCTAAGAGCCAGACAGAAAAATTAGCCAAGGTTTACCAGCCGAAACGT
TCAGTCTTATCCCTAAACTACTATTTCTGTTGCCATCTTTTGGCTGCAAGGCAGGACTTGTCAAAGATTTTA
AGGACAAGCAGCGGCTCTATAAGAGAAAAGACTGCCTGTGCCATCAATAAGGTGTTGATGGGCAGGGTGCCTGAC
AGAGGTGGTAGACCAATGAAATCGAACCTCCACCCCGAGAGATGCCACCGTGGCAGAAGAGGCAAGATGGCCCC
CAGCAGCAAACAGGAGGCCGAGTAGGAGGGAGAGGTGGCTATGAACATTCTCATACGGAGGACGAGGAGGTCAT
GAACAAGGAGCGGGAGAGGTGGACGTGGTGGCTATGACCATGGTGGCCGAGGGGGAGGAAGAGGAAATAAGCAT
CAAGGAGGCTGGACAGATGGAGGGAGTGGTGGAGGAGGTGGCTACCAAGATGGTGGTTATCGAGATTAGGTTTC
CAGCCAGGTGGCTATCATGGTGGCCACAGCAGTGGTGGCTATCAAGGCGGAGGTTATGGTGGCTTCCAAACATCT
TCTTCATATACAGGAAGTGGATACCAGGGTGGTGGCTACCAGCAGGACAATAGATACCAAGATGGCGGGCACCAT
GGTGATCGTGGTGGTGGTGGTGGTGGCGAGGTGGTGGTGGAGGCCGAGGTGGTGGTGGCAGGCCAGGGAGGAGGC
TGGGGAGGAAGAGGGAGCCAGAATTATACCAAGGGGTCAATTTGAACAGCATTTCAGCATGGAGGTTATCAG
TATAATCATTCTGGATTGGACAGGGAAGACATTACACTAGTTCAGGCTACCGAACTTTACATTTTGCTAGAGCT
CAAGTAATAGAACTTAGTTTCAGAATCCTGAATTCAGCACCTATTTTGAATTAATGTGAGACCACAGGTGGCAG
GCAGATTCTGTCTGGCATAAGCATTGTAGGTCTTCATTCAATTCTGTTAGATTTTTTATTGGACTTACATAA
TGCCGTTTTATTGAGAAACACATAACATCTCTCCTTCCTATGAAAAATTTTTTAAAAGGTGGTAAAATTGCCTT
TAATTGCCCAGTAGACTAATTCACAGTCAGAACATGCAAACTTTTTTGAAGAAATTACTTGAATAAGTAGTTTT
CATGTTTTCAATATGCAGTTTTGAAAATGAGGATTCACCTAGACTTTTTTAGATTTACTACTAGGAAACCTTCCT
CATATGAATAACCATTTATATGTGTTTTGCTTAAAGTATTCCAATGCCTATTTTCCAAGCACAGTCTGCCCCC
GGTTGACTTTTATGCCACGTGTGCTTCATGATGGAACTTTTAGGTCAGTTCCTATTAAATGAGCTCTTCTGCAGA
TAGCACATTTCAGTAGCCTTATTTGTTGATGGAATACTGTATCATATGCTCAACTCTGAAAACCTTGAACACGGC
CAAAATCCATAAAGATTATAAAAAGCAAACCTAAGTTGTGAAGCTATAGTACATGTAGGCATTTAGTTAAGTATAGC
AATTCAAACCTGACCTGCATCCATCCAAAACAAATTCCTCCTTCAACCTTATTTTACTTGAATTTGCTAGAAGA
AATAGCAAACCGAAATTTGTTTTATGCATGAGTTAATACCACCTGGCTCAGCAAATACAAGTTAGTTTGCTTTAAG
CAGGTAACCTTTTTTGTAAATGGAAGAAATGCACTACAAAGTTAAGACAGATTTTGTAAAGTGCAGGAGGCCCTT
TATTATTGCTGCAGAAAACAAAAGCCTGGCTGAGTTGATGTTTTACATTCTCCCTTACTGAAATCTACATGACAT
GATGCTTCTGTGGGTTTTTGTACATGTAAACATTGTCAAGCTGTGAAAGAAAATGGCTGGAGGTGTGCTTTGT
GTGAAAGGTGAGCAATAAAGTATCTGTTAAGTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 974

WAINQAIANEYEVRRKLLIKRLDVTVQSFQWSDRAKSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKIL
RTSSGSIREKTACAINKVLGRVPDRGGRPNEIEPPPPPEMPWQKRQDGPQQQTGGRVGGGGYEHSSYGGRGGH
EQGGGRGGGGYDHGGRGGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQGGGYGGFQTS
SSYTGSYQGGGYQQDNRYQDGGHHGDRGGGRGGGRGGGRGAGQGGGWGGRGSQNYHQGGQFEQHFQHGGYQ
YNHSGFGQGRHYTS

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FIGURE 975

ATGCGAGCCCCGAGTACTTATAATTGGCAGTGGAGGAAGGGAACATACGCTGGCCTGGAACTTGCACAGTCTCAT
CATGTCAAACAAGTGTGGTTGCCCCAGGAAACGCAGGCACTGCCTGCTCTGAAAAGATTCAAATACCGCCATC
TCAATCAGTGACCACACTGCCCTTGCTCAATTCTGCAAAGAGAAGAAAATTGAATTTGTAGTTGTTGGACCAGAA
GCACCTCTGGCTGCTGGGATTGTTGGGAACCTGAGGTCTGCAGGAGTGAATGCTTTGGCCCAACAGCAGAAGCG
GCTCAGTTAGAGTCCAGCAAAAGGTTTGCCAAAGAGTTTATGGACAGACATGGAATCCCAACCGCACAAATGGAAG
GCTTTACCAAACCTGAAGAAGCCTGCAGCTTCATTTTGTAGTGCAGACTTCCCTGCTTTGGTTGTGAAGGCCAGT
GGTCTTGCAGCTGGAAGGGGGTGAATTGTGCAAAGAGCAAAGAAGAGGCCTGCAAAGCTGTACAAGAGATCATG
CAGGAGAAAGCCTTTGGGGCAGCTGGAGAAACAATTGTCATTGAAGAACTTCTTGACGGAGAAGAGGTGTCGTGT
CTGTGTTTCACTGATGGCAAGACTGTGGCCCCATGCCCCAGCACAGGACCATAAGCGATTACTGGAGGGAGAT
GGTGGCCCTAACACAGGGGGAATGGGAGCCTATTGTCCAGCCCTCAGGTTTCTAATGATCTATTACTAAAAATT
AAAGATACTGTTCTTCAGAGGACAGTGGATGGCATGCAGCAAGAGGGTACTCCATATACAGGTATTCTCTATGCT
GGAATAATGCTGACCAAGAATGGCCCAAAGTTCTAGAGTTAATTGCCGTTTGGTGATCCAGAGTGCCAAAGTA
ATCCTCCCACTTCTTAAAAGTGATCTTTATGAAGTGATTAGTCCACCTTAGATGGACTGCTCTGCACATCTCTG
CCTGTTTGGCTAGAAAACCACACCGCCCTAAGTGTGTCATGGCAAGTAAAGGTTATCCTGGAGACTACACCAAG
GGTGTAGAGATAACAGGGTTTCTGAGGCTCAAGCTCTAGGACTGGAGGTGTCCATGCAGGCACTGCCCTCAA
AATGGCAAAGTAGTAAGTCACTGAGGGGTAGAGTTCTTGCACTACAGCCATCCGGGAAAATCTCATATCAGCCCTT
GAGGAAGCCAAGAAAGGACTAGCTGCTATAAGTTTGGAGGAGCAATTTATAGGAAAGACGTCGGCTTTCTGTGCC
ATAGCTTTCTCCAGCAGCCAGGAGTTTACTTACAAGGAATCTGGAGTAGATATCGCAGCTGGAAATATGCTG
GTCAAGAAAATTCAGCCTTTAGCAAAAGCCACTTCCAGATCAGGCTGTAAAGTTGATCTTGAGGGTTTGTCTGGT
CTTTTTGATTAAAAGCAGCTGGTTTCAAAGATCCCCTTCTGGCCTCTGGAACAGATGGCGTTGGAATAAACTA
AAGATTGCCAGCTATGCAATAAACATGATACCATTGGTCAAGATTGGTAGCAATGTGTGTTAATGATATTCTG
GCACAAGGAGCAGAGCCCCCTCTTCTTCTTCTGATTACTTTTCTGTGGAAAACCTTGACCTCAGTGTAAGTGAAGCT
GTTGTTGCTGGAATTGCTAAAGCTTGTGGAAAAGCTGGATGTGCTCTCTTGGAGGTGAAACAGCAGAAATGCCT
GACATGTATCCCCCTGGAGAGTATGACCTAGCTGGGTTTGGCGTTGGTGCCATGGAGCGAGATCAGAACTCCCT
CACCTGGAAAGAAATCACTGAGGGTGATGTTGTTGTTGGAATAGCTTCATCTGGTCTTCATAGCAATGGATTTAGC
CTGTGAGGAAAATCGTTGCAAAATCTTCCCTCCAGTACTCTCTCCAGCACCTGATGGTTGTGGTGACCAGACT
TTAGGGGACTTACTTCTCACGCCTACCAGAATCTACAGCCATTCACTGTTACCTGTCTTACGTTACAGGACATGTC
AAAGCCTTTGCCCATATTACTGGTGGAGGATTACTAGAGAACATCCCCAGAGTCTCCCTGAGAACTTGGGGTA
GATTTAGATGCCAGACCTGGAGGATCCCCAGGGTTTCTCATGGTTGCAGCAGGAAGGACACCTCTCTGAGGAA
GAGATGGCCAGAACATTTAACTGTGGGGTTGGCGCTGTCTTGTGGTATCAAAGGAGCAGACAGAGCAGATTCTG
AGGGATATCCAGCAGCACAAGGAAGAAGCCTGGGTGATTGGCAGTGTGGTTGCACGAGCTGAAGGTTCACCACT
GTGAAAGTCAAGAATCTGATTGAAAGCATGCAAAATAATGGGTCAGTGTGGAAGAATGGCTCCCTGACAAATCAT
TTCTCTTTTGAAGAAAAAGGCCAGAGTGGCTGTCTTAATATCTGGAACAGGATCGAACCTGCAAGCACTTATA
GACAGTACTCGGGAACCAATAGCTCTGCACAAATTGATATTGTTATCTCCAACAAAGCCGAGTAGCTGGGTTA
GATAAGCGGAAAGAGCTGGTATTCCCACTAGAGTAATTAATCATAAACTGTATAAAAATCGTGTAAGATTGAC
AGTGCAATTGACCTAGTCCTTGAAGAGTTCTCCATAGACATAGTCTGTCTTGACAGATTATGAGAATCTTTCT
GGCCCCCTTTGICCAAAAGTGAATGGAATAATGCTCAATATCCACCCATCCTTGCTCCCTTCTTTAAGGGTTCA
AATGCCCATGAGCAAGCCCTGGAACCCGAGTCACAGTTACTGGGTGCACTGTACACTTTGTAGCTGAAGATGTG
GATGCTGGACAGATTATTTGCAAGAAGCTGTTCCCGTGAAGAGGGGTGATACTGTGCAACTCTTCTGAAAGA
GTAAAATTAGCAGAACATAAAATATTTCTGCAGCCCTTCAGCTGGTGGCCAGTGAAGTGTACAGCTTGGAGAA
AATGGCAAGATCTGTTGGGTTAAAGAGGAATGA

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FIGURE 976

MAARVLIIGSGGREHTLAWKLAQSHHVQVLVAPGNAGTACSEKISNTAISISDHTALAQFCKEKKIEFVVVGPE
APLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIPTAQWKAF TKPEEACSFILSADFPALVVKAS
GLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIEELLDGEEVSCLCFTDGTVPMPPPAQDHRLLLEGD
GGPNTGGMGAYCPAPQVSNLLLLKIKD TVLQRTVDGMQQEGTPYTGILYAGIMLTNGPKVLEFNCRFGDPECQV
ILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVMASKGYPGDYTKGVEITGFPEAQALGLEVFHAGTALK
NGKVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKDVGFRAIAFLQQPRSLTYKESGVDIAAGNML
VKKIQPLAKATSRSGCKVDLGGFAGLFDLKAAGFKDPLLASGTDGVGTLKIAQLCNKHDTIGQDLVAMCVNDIL
AQGAEP LFFLDYFSCGKLDLSVTEAVVAGIAKACGKAGCALLGGETAEMPDMYPPGEYDLAGFAVGAMERDQKLP
HLERITEGDVVVGIIASSGLHSNGFSLVRKIVAKSSLOYSPPAPDGCQDQTLGDL LLLTPTRIYSHSLLPVLRSGHV
KAFAHITGGGLENIPRVLPEKLGVDLDAQTWRIPRVF SWLQQEGHLSEEEMARTFNCGVGAVLVVSKEQTEQIL
RDIQQHKEEAWVIGSVVARAEGSPRVKVNLIESMQINGSVLKNGSLTNHFSFEKKKARVAVLISGTGSNLQALI
DSTREPNSSAQIDIVISNKA AVAGLDKAERAGIPTRVINHKLYKNRVEFDS AIDLVL EEFSIDIVCLAGFMRILS
GPFVQKWNGKMLNIHPSLLPSFKGSNAHEQALETGVTVTGCTVHFVAEDVDAGQIILQEAVPVKRGDTVATLSE
VKLAEHKIFPAALQLVASGTVQLGENGKICWVKEE

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FIGURE 977A

TGCCATGCTGCTGCACGGACAGGATGTGATCACTGTGTCCAATGGAGGCCGAATCATGCGTTTCCTGGGAGACTAA
CATCGGGGGCCTGAACTGGGAGATAACCCTGGACAGTGGCAGTTTCCAGGCACTTGGGCTGGTTGGCCTGCAGGA
GTCTGTAAGGTACATCGCAGTCCCTGAAGAAGACTACACTTGGCCTCCATCACCTCTCCAGTGGGCACCTCAAGTG
GGTGAACATCTCCAGAAAGTGACAGCATCCACTACCAGATGGTGTATTCTTACGGCTCTGGGGTGGTGTGGGC
CCTCGGAGTTGTTCCCTTCAGCCATGTGAACATTGTCAAGTTTAAATGTGAAGATGGAGAGATTGTTACAGAGGT
TAGGGTTTCAACTCCGTGGCTGCAGCACCTGTCTGGAGCCTGTGGTGTGGTGGATGAGGCTGTCTGGTGTGTCC
TGACCCGAGCTCACGTTCCCTCCAACTTTGGCTCTGGAGACGGAATGGGAGTTGAGACAGATCCCACTGCAGTC
TCTCGACTTAGAATTTGGAAGTGGATTCCAACCCCGGGTCTGCCTACCCAGCCCAACCCAGTGGACGCTTCCCG
GGCCAGTTTCTTCTGCACTTGTCCCAAGCCACTATGCTCTGCTGCAGTACCATTATGGAACGCTGAGTTTGCT
TAAAACTTCCCACAGACTGCCCTAGTGAGCTTTGCCACCCTGGGGAGAAGACGGTGGCTGCAGTCATGGCCTG
TCGGAATGAAGTGCAGAAAAGTAGCAGTTCTGAAGATGGGTCAATGGGAGCTTTTCGGAGAAGTCTAGTTCAAA
GGACTCTCTGGCTTGTCTCAATCAGACCTACACCATTAACTATACCTCGTGGAGACAGGTCCGGCGGCTGCTGGA
CACCACGATAACATTTAGCCTGGAACAGAGCGGCACTCGCCTGAGCGGCTGTATATCCAGGTGTTCTTGAAGAA
GGATGACTCAGTGGGCTACCGGGCTTTGGTGCAGACAGAGGATCATCTGCTACTTTTCTGACAGCAGTTGGCAGG
GAAGGTGGTGTGTGGAGCCGTGAGGAGTCCCTGGCAGAAGTGGTGTGCTTAGAGATGGTGGACCTCCCCCTGAC
TGGGGCACAGGCCGAGCTGGAAGGAGAATTTGGCAAAAAGGCAGATGGCTTGCTGGGGATGTTCTGAAACGCCCT
CTCGTCTCAGCTTATCCTGCTGCAAGCATGGACTTCCCACCTCTGGAATGTTTTATGATGCTCGGAAGCCCCG
GAGTCAGATTAAGAATGAGATCAACATTGACACCCTGGCCAGAGATGAATTCAACCTCCAGAAGATGATGGTGAT
GGTAACAGCCTCAGGCAAGCTTTTGGCATTGAGAGCAGCTCTGGCACCATCCTGTGGAACAGTATCTACCCAA
TGTCAAGCCAGACTCCTCCTTTAAACTGATGGTCCAGAGAACTACTGCTCATTTCCTCCATCCCCACAGTGCAC
CCTGCTGGTGAAGGACAAGGAGTCCGGGAATGAGTTCTCTGTATGCTTCAATCCCATTTTTGGGAAGTGGAGTCA
GGTAGCTCCCCCAGTGCTGAAGCGCCCCATCTTGCACTCCTTGCTTCTCCAGTCATGGATCAAGACTACGCCAA
GGTGTGTGCTGTGATAGATGATGAATACAAGGTACAGCTTTTCCAGCCACTCGGAATGTCTTGCGACAGCTACA
TGAGCTTGCCCTTCCATCTTCTTCTATTTGGTGGATGCAGAGCAGGGACGGCTGTGTGGATATCGGCTTCGAAA
GGATCTCACCCTGAGCTGAGTTGGGAGGTGACCATTCCCCAGAAGTACAGCGGATCGTCAAGGTGAAGGGGAA
ACGCAGCAGTGAGCACGTTTCAATCCAGGGCCGTGTGATGGGGACCGCAGTGTGCTCTACAAGACCTGAACCC
CAACCTGCTGGCCGTGGTGACAGAGAGCACAGACGCGCACCATGAGCGCACCTTTATTGGCATCTTCCTCATTGA
TGGCGTCACTGGGCGTATCATTCACTCCTCTGTGCAGAAGAAAGCCAAAGGCCCTGTCCATATCGTGCATTGAGA
GAACTGGGTGGTGTACCACTGGAACACCAAGGCTCGGCGCAACGAGTTTACCGTACTGGAGCTCTATGAGGG
CACTGAGCAATACAACGCCACCGCCTTCAGCTCCCTGGACCGCCCCAGCTGCCCAAGTCTCCAGCAGTCCCTA
TATCTTCCCGTCCCTCCATCAGTGCCATGGAGGCCACCATACCGAACGGGGCATCACAGCCGACACCTGCTGAT
TGGACTACCTTCTGGAGCAATCTTTCCCTTCCCTAAGGCTTTGCTGGATCCCCGCGCCCCGAGATCCCAACAGA
ACAAAGCAGAGAGGAGAACTTAATCCCGTATCTCCAGATGTACAGATACACGAGAGCGATTCACTAACTATAA
CCAGACAGTTTCTCGAATGCGAGGTATCTACACAGCTCCCTCGGGTCTGGAGTCCACTTGTTTGGTGTGGCCTA
TGGTTTGGACATTTACCAAACCTCGAGTCTACCCATCCAAGCAGTTTGACGTTCTGAAGGATGACTATGACTACGT
GTTAATCAGCAGCGTCTCTTTGGCCTGGTTTTTGGCACCATGATCACTAAGAGACTGGCACAGGTGAAGCTCCT
GAATCGGGCCTGGCGATTAAGAACAAGACTGTGCCTAAAAGTGGAGAGCCAGGGGAGTGTGGGTGAGATAAGCA
GCTACAGCTGCAGTTTGGTGGATTGGTGGAGTATGTGTGTGTGTCAGTGCTCAGCTAAGAACTGTAGGGAAGATG
GATGACCTTCACGCAGAACTCCTTTTGGGATATACATGATGCAGAAAGGATCCTACATGGAGAGAGACAGAACTC
TCTCAGCTGACACTCTCAGAGATTCTGATGGGCTTCTCTTGAAGTCCAAGGCGTCTGCATTGTTTCTCTTCT
TTGCCCATCCATGAATGTTCTGTTTTGTTTTTAAATAAGAATTCCGGCTGATTTTGTGAGGCTGTTTTAAAT
TGACTTTACTTTGCCCTTTGTGTTTTCTCAATTTTATCTAGAAATCTTCTGACTTTTTCATCTCTTGCTTCAAA
GTAAGAGGGGAACTCTCCTTGCCGACTCCACCTTATAGGTACATTGGTGTGTTTGCACCTGGGAAGAAATAGGATC
CATCCTTAGCTGAGGCTTGAGGACTGATCCAGCCTCTCATGGCTTCCCTCCAAAGTAACTTAGGGTTGAGGGATC
TATATGTGATGTCAAACTTACTTTAAACCTCTAGTTTCGTGCTGTCATTTATTAGGCTGGGCAACCAATCTTT
GTTTCAATTTATCAGAAGCCAAGTGCATACTAGCGTCTGTTTTGTTGGCCATTGCCTATACTTTTACCTGAGAT
GTGTGAGTTGGGGCCTTTAAAACTACTGAATTGTCTGAGCCTTGAAGACATTTCCAGGGAGAAGAGATAATCT
CTCATTTCAACCCACAGGCTGGTCTAATCATAACCTAGTTAAAGATGTCCTTGTTTAAAGAACCCCATTTATTTATT

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FIGURE 977B

TTAGTTTTTAATATAAAATTAACATGTGGGTCATTATATTTCTCCTTAAATGAGGAAATTTTAAATTTTATTGATC
TAACCTTTGAAGCTTTAAAAAAGGAGAAAGAGGGTAGGGGTGGGAACTGGCATACTGTGTGTATAGCACTGCCG
ATTGGCTAGGCCACTGTGTCTCTGCTACAAATTAAGAAATCCTAAAAGTTTTCTTGGTCATAGAGTTGGGGAA
TGACAGAATTTTTCTTTGTGTGAAATGTATGTACAGAGTAGACCATCTCTAGCCCTGTGGTGAAAGAGGTACAC
TCGAATGTTTGCATAAAGCAAGTGACAAATGACACTGTTTAAGTCCTCTTTGTGTCTTAGAAGATCATTTTGAG
GCTATTTTACATTAGAGGGGATAAAGCAGTGAAGACATGGAGTAAGTGATTTTTATTTTAGTAAGGAAAGGTC
AGTTTAATCATATATGGGTTGGTTAGGTTATCTAAAAATTTGTCATCTTCTATGGTCATATGCTGATGGTAGAT
TATGGCAGAGAAGGAAGAGGAAATGACAACCATTTTTATTAATTGTCAGTTTGATATTGAGTGACTGAATGTCTAA
GAATCTCCAGAAAAAACAGGCATCTATCATCCTGACCCAAGGCATATTTAACATAACCTGGGAGAAGAGAGTT
AAGTACAAGTTAAAAAAATTTCTGCCCTAGTTTTGAGAAAGCCTGGCTGGAATTTCTGACTGTCTTACATACATAT
GTGCAAGGTTAGCCTGCAAGATTCTAGTTTTTATTTACCAGTGTGCCAGAATCTGAAACAAGCTACTGGGAGGGA
AGGTATTTGTCCTTTAGTAAAAATCCCTGTATTTGAGCTGTAATCAAAGTTACCTCAAAGCAGGTGCTTTTTTTT
TTTTTGAGACCTGGCTCAAAAACAAAAACAAAACTAGTTTGTTTTAGTATTCAATTAATACGTATATGAGCAC
TGGTAGICTAGTGTGTCTTGTATACAGTGTCTTCTTAAATGAGATGATGCTATTTAATCTGTACTTGTGTT
TTTCAACTAATGGATCTTTTAAAGTTTTTTATTTAAATTTTTTGTGGGTACATATTAGGTACATATACTTATGGG
GTACATGAGATGTTTTTATAAAGGCTCAGCTAATGTATCTTGAATATCATGTATTCTATAAAGATGACTGAAATAG
TTTCTGGAACAAAGTCTGATAGAAAAAATACTCAATTCCTAATTTAAGTGTTAGAGACTTTAATGTAAGCTATCT
AATCTGAACTAGTTTCATTATTTGTGTGTGGGTACATGTTATGTGCTCCGTAAGGCATCTTCAATTTGAAAATT
TCATAATTGTAATTTCACTGCCTTTATAAATTGCTTTTTTTTGGAGGCAGGGTCTCTGTCACCCAGGCTGGAGAG
CAGTGGCACAGTCATAGCTCACTGCAGCCTCGAACACCTGGGCTGAAGTGATCCTCCCTCCTTAGCCTCCCAAAG
TGCCGGGATTACAGGCATGAGCTACTGCACCTGGCCCATAAATTGTCATACTTTTAAAGAGCCTATTACACAAAG
TATCATCAGAATCATCCCAAGACTCATTTCCTGATTCCCTAATTATTTAAAAATTTTGCTTTTAGGCGAGGCATGGT
GGCTCAAGCCTATGGTCCCAGCACCTTGGGAGGCCAAGGCAGGCAGATCATTGAGGTCAGGAGTTTGGGACCAG
CCTGGCCAACATGGTGAAACCTGAAACCCCATCTCTACCAAAAAAATGAAAAATTTAGCCAGGTGTGGTGGTGC
ATGCCTGTAAATCCCAGCCTCCCGAGTAGCTGGGGCTCAGGCGTGCGCCACCATGCCCCGGCTAATTTTGTATATT
TATGGAATGCCAAGAGATAGTTCAATCTGCCTCTCTGGCAAGCCATGGACACCAGGTCTGACAACTCTCTTAC
TCCTTAAGACAAATGCTCACCTGATCAATATGGGGAAATAAGCTGCATGGTACCATAATTTCTATTCTAAAAGGG
AAAAGTATCTCTTTGGTATTGCTTTGGAAAACATCTTTATAACTATCTTGCTATTTAAAAATTGACAATTATCC
TTCCATAATTAACACAGGTAGACAAC

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FIGURE 978

AMLLHGQDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKW
VEHLPESDSIHYQMVSYSYSGSVVWALGVVFPFSHVNIKFNVEDGEIVQQVRVSTPWLQHLSGACGVVDEAVLVCP
DPSSRSLQTLALETWELRQIPLQSLDLEFGSGFQPRVLPTQPNPVDASRAQFFLHLSPSHYALLQYHYGTLSLL
KNFPQTALVSFATTGEKTVAAMACRNEVQKSSSSSEDGSMGSFSEKSSSKDSLACFNQTYTINLYLVETGRRLD
TTITFSLEQSGTRPERLYIQVFLKKDDSVGYRALVQTEDHLLLFLLQQLAGKVVLWSREESLAEVVCLEMVDLPLT
GAQAELEGEFGKKADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQKMMVM
VTASGKLFGEISSSGTILWKQYLPNVKPDSSFKLMVQRTTAHFPHPPQCTLLVKDKESGMSSLYVFNPIFGKWSQ
VAPPVLKRPILQSLLLPVMDQDYAKVLLLIDDEYKVTAFFPATRNVLRLHELAPSIFFYLVDAEQGRLCGYRLRK
DLTTELSWELTIPPEVQRIVKVKGRSSEHVHSQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLID
GVTGRIIHSSVQKKAKGPVHIVHSENWVYQYWNTKARRNEFTVLELYEGTEQYNATAFSSDRPQLPQVLQQSY
IFPSSISAMEATITERGITSRHLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYN
QTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDYDYVLISSVLFGLVFATMITKRLAQVKLL
NRAWR

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FIGURE 980

MGSSVLPFCVCTSPSLGGRCIQGRFASHSKFWGFGGRKTASFGAVGETPPDQEPQKETEPATSSHARPWARVIGL
RIWPQPN

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FIGURE 981

GCGGCTCAGTGCGTGAGGTTGGCGCGGCGCAGTCTTCCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGGTTG
TTGTGCACAGCCACGAAACAAAAGAACAGTGGCCAGAACCTGGAAGAGGACATGGGTCAGAGTGAACAGAAGGCA
GATCCTCCTGCTACAGAGAAGACCTCCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAA
AAATATAAACGAGCTTTGGCAGACACTGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTA
TACGGCATTCAAGCCTTCTGCAAGGACTTGTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTTCCA
AAAGAAGAAATTAAAGACGATAACCCCTCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATC
CAGAAGGTGTTACAAAGCATGGCTTGCTCAAGTTGAACCCCTGTCGGAGCCAAGTTGACCCTTATGAACATGAG
GCCTTGTTCCACACACCGGTTGAGGGGAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTG
CATGGGCGCACTCTGAGACCCGCCCTGGTGGGGGTGGTGAAGGAAGCTTAGCTG

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FIGURE 982

AGCGGGCTGGGTGCGTGCGCGGCGACTGCGACGGGCAGTGGCAGTCAATGGCGGCTCAGTGCGTGAGGTTGGCGCG
GCGCAGTCTTCCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGTTGTTGTGCACAGCCACGAAACAAAAGAA
CAGTGGCCAGAACCTGGAAGAGGACATGGGTGAGAGTGAACAGAAGGCAGATCCTCCTGCTACAGAGAAGACCTT
CCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAAAAATATAAACGAGCTTTGGCAGACAC
TGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTATACGGCATTCAAGCCTTCTGCAAGGA
CTTGTTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTCCAAAAGAAGAAATTAAAGACGATAACCC
TCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATCCAGAAGGTGTTACAAAGCATGGCTT
GCTCAAGTTGAACCTGTGCGAGCCAAGTTCGACCCTTATGAACATGAGGCCTTGTCCACACACCCGTTGAGGG
GAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTGCATGGGCGCACTCTGAGACCCGCCCT
GGTGGGGTGGTGAAGGAAGCTTAGCTGCTGTTGATGGGGTGGGTGTTTTAACTCACTTGATGTAACCTCTCAA
GGCTGGTTCAATTGTTTCTCATCTATGAGTACGTGTGACCTTTTCCCAAACCTTATTGAAACCTTAAGTAACCAG
TGGCTAAACAGAAAAGCCGTTGCCCAACTGCATTAATGAACCTAATTGCGGAGTCTGTTCCCTTTTAGTGCCA
CGCGTTGAATAGTTCCACATACTTTCAGAAGAGCTCAGCAGGGCCCTGCCTGGTCTCCCGAGCATCATGAGTAAC
GTGTCTGCTCAGACTCTGCTGACACCAAAGTATTTTAAACAAATAAAAGGTCTTGGGGAATTCTGTTTGGCTACC
TGGGCACGCCAGTCTGCACCATGTGTCCCTGCGGCGCATGAGTGAAGTGGCGTATTTAGCCCGTCACATTCATT
GCTGAAGGAAAGGCAAGAGAGTTGAAACATTTTTCTTACTTAAAAAAATGATCTTTGTGAAGAACATAGTGAGT
TCGTTTGTCTTCAGTCAACAGCGGCTGAACTGACCACTGAGAAATGGGTGTGGGCACTGACAGTTCTCCCCCAT
TATTTGGCCAGGAATTGAGCTTGGCTTGGCAAAGTTCCTTTTACCCTGTTCTGTTTCAATGACAGACATATT
TAAATCATATTCACTAGTTACTAATGACCTCAAGTTGTATTCCCTGGCAAAATGGACTTTCTCAAAATAGGACT
GCACGCTTGGTGACTTTAAATGTTAATGTTTAAATTTTATTTAAGAGGATTAAAGCCCTAATGTTTA
TTTTCCTACAAAAAAAAAAAAAAAAA

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FIGURE 983

MAAQCVRLLARRSLPALALSLRPSRLLCTATKQKNSGQNL EEDMGQSEQKADPPATEKTLLEEKVKLEEQLKETV
EKYKRALADTENLRQRSQKLVEEAKLYGIQAFCKDLLEVADVLEKATQCVPKKEIKDDNPHLKNLYEGLVMTEVQ
IQKVFTKHGLLKNPVGAKFDPYEHEALFHTPVEGKEPGTVALVSKVGYKLHGRTLRLPALVGVVKEA

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FIGURE 984

GGGGGAGAGGGGGCTCAAGGCGAGCGCGCCGGGCGAGTTGCGGGCGCGTGGCTGCTGAGGTTGGCGGCGGTGCCGC
GCGCCCGACGGGGCCGTTGGTTGCGGGGCTCCCGCTCGACCCGGGCTGGGGGAGCCGTGGCGGCCCGCGGGGA
CCGCAAGGGGCGGAGGAAAGGAGGGGGCCGGTCCCGGCACGAGAGGAGCAGCCGACCATGCCCGAGACAAAT
GGCCTCCTTGATCCAACGGATCGCCCGCAGGCTTGCTCACCTTCCGGGGCAGCTGGGGCGGCCGCGCGCTTC
CGATCGCGACGCGGCTTCTGGCGCGGAGCGCGCGATGCAGCCGGGCTTCCCGAGAACCTGAGCAAGCTGAAGAG
CCTCCTGACCCAGCTCCGCGCGGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAA
CCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTCTCCTGCTCAAGAGCGG
CACGTCCATCCCGCTGCACGACACCCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCCTGCGCATCAG
CTGCATGGACAAGCTAGACGCGGGCGGGCGGCAACGGCCGCGGGCCTTGCCGCCGAGCAGCAGTTTCGAGCCGCC
GCTGCAGCCCCGGGAGCGAGAAGCCGTGCGGCCGGGCGTGTGCGTTGCGGGGCCGAGTACACCGAGGCCAGCGG
CCCCGTGATCCTCACACCGCACCGGGACAACTGCACAGATCGACGCCGTGGAAGGGCTGCCGCTTCTTGGA
CATCCTGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGCCACTATTACCGGTGCTGGAGCCGGTCAGGCC
CAAGGAGGCCCTCCAGCTCGGCCTGTGACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTT
CTGGTGCAGGGGAGAACCCTATCCAGGTCCCAAGGTCTTCCCTTGAAGCCACTGGCGCCAGGAGCGGTGGGCCG
AAGACGTGCCCTACCCTACCACAAGGGCTGTGTCTTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCA
GCAGCCGCTTCTCGGCAGCCTTGGGAAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGCGGG
GTGGGCGGGGAGGCTAGATTGTTTCTGTTACTGTCACTGCCACTGGGGCTTGATTGGAGGAATGGGGCAGGG
GACTATCTGAAGCGCTTCCATCCTAAAGCCATAATGAAATATCTTCTCTCTTCCCATCTATACAAAATACT
AAGTGGTTTTCTTGCTCCCACTCCCTACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCCTT
TTTTCTTATAGTTTTTTAACTTATTGACTGTGCATGACCCAGTGGTTTGAATTGTTTTTAGTTCAAGTCATTGGT
AAAACTAGGTTTAAGGAGATGAGCTACTGTTTAAAGTGAGCTGGCCTGCCTAATTAATTCTGTGAAAATAA
ATGATTTTTTCAGTTTGGGGATCATTCTCACAACTAATATGCATGTAGAGGACAAGATTTATTTCTTCTC
CCTTGCCCGAGTAGCCACATCTGGTTTACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGA
CATGGTCACTTAGAGCTTATCTTCCCTATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTATGTTGCAGATTCA
CCTTTAATGCAAAGACTGTATTATCCTCACATGACTTTTTTCTGTCTTACTGTACCTTAAAGGTGATAGAGT
AATCTGTATTTTCTAACGGGAAGATTCAAAGGAGCTGAATGTGTATGCTTCAAACAACCTGAATGTAAACAC
TCCTAGCCAGTTGTTGCATTCCCTATATTTTACTTCCAAATATTTTACTGTAAAAGTAGGGAGAAATATTATG
TTGATAGTTGTTTCATATTCTCTCAGGAACTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTGCTGGCAGT
GTTGTCTCAACCTCTCCCTAAAATGACTGAGCCCTGGGTTTCACTAATGTGGTTTTCTTAGGAAGAGATAGAA
GGCACAGAAGATCACAGCTAGAGAATTGAGAATTAACATACTACTAGCCATTTTAGGGCACCAAACTTGGGAT
TAAACACTTCTACTTCCCACTCCCACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTTGTGCT
TTAATAGTCCGAGCAGTCTTACCTTGTTTACACATGTATTGACACCATTTGCTTCAGGCCATGGAGCACTGTTT
CTCCCTTTTTTACTATTTATAGGATTCGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACAC
ATTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 985

MQPGFPENLSKLKSLLTQLRAEDLNIAPRKATLQPLPPNLPPVTYMHYETDGFSLGVFLLKSGTISIPLHDHFGM
HGMLKVLYGTVRISCMDKLDAGGGQRPRALPPEQQFEPPLQPREREAVRPGVLRSAEYTEASGPCILTPHRDNL
HQIDAVEGPAAFLDILAPPYDPPDGRDCHYYRVLEPVRPKEASSACDLPREVWLLLETPQADDFWCEGEYPYGP
VFP

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FIGURE 986

CCCTCTTCGTTGGGGCCCTCCCTGTCCCTCTCTGTACCTCACAGTAGTCGTTGCCGGTAGCGGGTGTGGGG
CGCGAGCAGCGCAGGGCGGCTCTCCCCACCCCTACAGCCGGGCGGGCTCGGTCCCCCTCTCCCTCCGC
TTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGTGCCGGGTGCCGAGGGCCGTCTGGCCGCCGTGCCA
CGGGTCCCAATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAAGGCCTGGCCGG
CGGCTCAGCCCCATCATGTGGGGAACAACCTGGAAGGCATCTGGCACACATCCATAGTTGTGCACAAGGATGAG
TTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGGCTCCAGACTCTGTGGTT
GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGGGGAGTCCCTGTTCGA
GGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCACAGTTCTGTAGTGGCGG
AAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTTCTCTCCAGCCCTTTGGACAGGCACCTTCGGCCCTC
CTGGACTCCATTAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCAACGGCCAGAGCTAACAGGACTGC
CTGGGACCGCCCTGCCTCACCAGGGCTTTTCTTTTTAAACAAAACAAACCTACCAGATTCTATTTTATAATT
TTACATCAGAGCTAACACCAGGGGACGGCTTTTTAAATTTCCAGGGAAGGAGACCGTCAGGCCGCATGTAGAC
AATGCTGCTAAGAAACAGAACAATAATGCCACCCCTTCTAATAGTATTATACTAATTTATTAAGGCTGTCTGTCT
GTGCGTTCACTTCGGATGCTGTTTCTTAAGCGTCTCCACACTGGAGAAAGGGAGGGCTTTGTTTAAACAGAAA
GCGAGTCACAGTTTGGGGAGCCCCAACCTAGAACTCTTCCAGAGAACACTCAGCTCTACCCAAGTTGCCAAC
ACCTGTGGGACCCAGGTGAGTTTTAGAACATCCGTGACCAGAAAGTTACTCTAGTGTAAATGAACCAAAGGAT
TTGGTGTACATGGGACCGTTTCAGGATGACTAACCTAACCTAAGTGAATCTTTAGCCACAACCTCACCTTCC
CTCCCTTACCCCAAGCAAGGCCAGTGTGAGCAGCCATTGCCCTCCGATCAAGGGAGTAACAGCAAGTATCAGG
CCGGAGAAAACAGGATAAAGCCATTCTCTTCCACCTAGATGGATTGCCAATCTTCTGCCATCAATTTTGGGAA
ACCTGCCTTTGTGCCCCGAGGCTGCCTTCTCTCAGCATAGCTGACTTGTCTAGTGGATGAGGTCTGGGCTGGA
GCAGTAGAAGCCAAGGCCTTTTTTCTGCAAGTAATGATGTAGGTTATTTGCAGTCTCTGTAAACCACCATCCAGGC
CAGTAGCAGTATTTAGCTGGGGACCAAGGGATGGGATTCCCTACTCTAAGAAAATACCTTTATTTTAAATTATTA
TTATTTTTTGTAGACGGAGTCTCGCTCTACCAACCCAGGCTGGTGTGCAGTGGCATGATCCCGGGAGGCAGAGATTG
CGATGAGCCGAGATCGTACCAGTGCCTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAATAAATAA
TGAAGTGGAAATCAAGGTGGCAAGAAAATTTAGAATCGTTTCTGATAGGGACTTTCCCTTATCCTAAATGTGTTTT
GAAGGCACACGTTATTTCCATTGTCTATTCTGACTTTAGAAAAGGCAGGTTGGGGCATGAGTGGGCATTTTCTTAAT
GACTTGCTGTAGGAGGTTATAGGCAGGGAACAGTCTGGGAGTCTCTAATCCAGAGAGACTTTCAGATTCCCTCT
CTTCACATGAACCTCCATTAGTTAGATTTTGGGAAAGTGAGCATGAAGAAGGGACTCAGAGCTGCCAGGTACCCG
AGTCTCAGGTCTGACATCCTTGGGCCCTTCTGCCACAACCTTCTTGCCACTTCACGGACTTGAATTATGTGCTT
CTTCTGGAAGTCTGGCCTGCAGCACAGGCCTTCTCTCCAAAAGCTGCTGCTCATTCTGGCCCCATCTGCT
GCTATCTTTGCCATCAGCCATCACAGTTTGGCATCATCAGAGTCTCAGCTAGAGGAGCTGTCTATTCTGCCTTAGT
GTTTGCTGCGACCTGACCAGGGGCATGACCAGCTGGGATGTCAAGTGACATTGGGAACTTGTAGAGGCCAAAT
GATTGAAAGTTTAATCTTCTCAAGACCCACTGATTTGCCAGTGTGCATGGAAATAATAGATTAGAGCAGAACT
AGCAGGGACTGTTGTATAATCGTGATCTACTAGCAGAATTGGGCCCCAAGAGAAAGAATTTCTGAGGCTGGGTTT
CTTCTGGGAGGGTAGCAGGTTGGTCTTGGCCAGTGCTCTGTTTCCACCAGTGTGTTCCCTTTTCCAGCTTGCC
TGGCCCGCTCTGTCTTCCAGGTCCTGCTCCAGACCCCTCTGCTGGGGTCTCCCTCCATCCAGGGGGTTCTG
GGCATCACAGCTCCTTTTTTTTCTCTCTCTTCCAGATCCAGTTTTCAGCTGGTTTGTCTTCTTCCAGCAGGCA
CCCTTAGGCCAGGAGCAGCTCCCTGAGAGAATTTGAGTCACTCATTTCCTGAACAGCACCCCCCTTTATACT
AGCAGCCATTTGTGCCATTGCCTGTGCCCTAGGGTTTGTGGGGAGAGAGCGAGGGATCACTGAGCAGTTTCCCA
GAGCTCCATGGGAAGGCAAGCTCTCCCTCCCAATGGGAGCCCCACTGTCTAACTGTAACTCAGGCTCAGGCT
TCAACTGCCTACCCCATCCTCATATTTCTGTCTGTCCAGCACCTCAGGAGCATTCTCATTGTGGCCGGCTAAC
TCCGCTGGATGTGAACAGGCAAGCACAGTGGGAAATGAGTCACGTACTTGTATGCACAGTGGACACCTCTAGA
GGTCCATTGGTTTAAAGGGATAGGGAAGGAGGAGGATGAGACCATCACCCCTCCAGAAAGTAAATCTAGTATC
TGAGTTTTCTTTATGCCCTTGAGTCAAATAAAGTGTCTAGTACGGAGGTGTTGCTGGTTTTCTTCGGTGT
TTTTCTAATGCAATAAACTCATTCTGCCTGCTCG

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FIGURE 987

PLPCGPSSLSPCHLTVVVAGSGCGGASSAGRPLPHPYSPGPGSVPPSPSASHSRRVREGPSRCRVPEGRRGRRRH
GSQWSRRISIR

GGACACGAGGCTTACAGTAIGTTTTCAGAAGTGAAATAAATTAATGACCGAACAGAAACCCCTCTCCCTAGCTCT
ACTCAATGTTAGTAAGCTTGCCAGCAAAGCACGGACAGAGAAGGAGGAGAAGCTGAGCCAGGCCTATGCAATCAG
TGCTGGTGTCTCTCTAGAGGGCCAGCAGCTCTTCCAGACCATTACAAGACCATTAAAGACTGTAAATGGCAAGA
AAAAAACATCGTAGTCATGGAAGAAGTTGTTATTACACCCCATATCAAGTGGAAGAACTGTAAAGGCAAAGAGGG
GAGTGCACCTGAGCCATGTACGAAAATAGTTGAAAAACATTTTAGAGACGTGGAAGGCCAAAAGATACTGCAACG
TTCACAAGCCCAGCAACCACAGAAGGAGGCTGCCCTGTCTCCTGAGTCCGTACACATGGAGGACTCTTCCAGCA
TCCAGCCAAGGAGGCGCTGGTGGTGGCTTCAGCGGAGGCAGGCCGGGGGAGGGAAGGGATCCTATATGTCCTGTT
GGCTCTTAAACAAGGGTCAGCATTTCCAAATCTTAGACTTGAACAAACAAAACACCCAACAAAAAGAACAAGAG
AATAATTTAAAAGTTGAATCATTACTTGACTAACAGACTTCGGTCCACCATGTCCTTTTCACAGCCCTCTTCTGG
AACAGTCACCTTGTTAATTTTATTTTTGAAAATTATTTTCCACTCTGCCCTTTACTTCTGACTTTTCTTTCTTA
GTTTGTTCCTGCCATTCTGTTTTTATAAGTGGCTACACTTGCCTTCTGAATGATTGAAAGAACTTTTACATCTT
TTCTTCCAAAATAAAAGTAACAAGCTGACTGTGATTCTTAAATTGAGACCAGAGCAGCAACGCTCCTCACTTTAA
TTTTTGTTCCTTTCTTTCTTTTTTCTTTTTCTTTTTTTTTTGCACAGGGCATGGCTTGAATTAGTTTTATT
TTCTTAACTTTAAATATATATATGAAAATATATATTTAAATGTTCTCTAAATATTTTCTGCTTCTTGCAGGTCTC
TTTTTACTAGATCATGGCTGTCTTCCACCTCATCCCTCTGAAAATAAAAATGTATTGCCCTCCCCACCATCCA
TCATAGCCAGGCCACTAAGTTGACTTGGTGCAAGAGATTCTTGCTGCGAACTTTGTAGAGCCAGTGTGCAGATAG
AATTTGGCTTTGAGGGTTCCTGATGGCTTTTTAGTCTTTAACTGTGTGTGTACCAGTCTCACATTTGGCCCAAAC
CTCAGGATTCTCCCTCTGCCCTGTCTTACTTCATGGTACTAGAAGACCTTCTCTGCCACTCTCTCCACATGAGAGA
GTCAGCTGCCCTTTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCAATGGCACATCTCAGCTCCTCATTGAGGGA
TAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGACCTCTCTTTAAATCTATATCCAGAGCCACTAGCC
CAGGAAAAAAGTTGGGTGACCCGTAATTTCTCTTCTCCTGCTGTCTTTTGTCTTTACGCCCCACCCCAACTCCCC
TTAAATTTTACAGGCTTATGACAGTTTGTATGTGCTCAGCCAATGAGCAGAAAACCTGGAAAGAAATTTCTGGACT
TTAGCCCACAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAATTGGCACCCATTGCCCGTGCTTTCAGGC
AGTCTCCTGGGGCAGAGTATGCCACCATCCGAATATCAGGCACCTGAGTGGGATGTGGGTGATGCTCACATGACTG
GCTAGAGCTTTGGGGGTGGGGTGGGGGTTAACTACTATTTTCTTTGGCCATGAICTTTTCCCTTCTCCTTTTTTT
TTAATTAATAATAATGGATCAAAATTAATAATTCAGGCCCTGCCTTCAAAATGAAATTTTTTTTTTAGTATTATTTA
GCAAAAAACAATAAAACCCAAATTTTTTAAACCATCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA
AAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA

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FIGURE 989A

TTGCTGCGTCAACTGTGTTCCCTTTGGCCTGGCTGAGTTTGATACTGTGGGGATTAGTTTAGGCGCTGGCCCGA
GGATATCCCAGCGGTGGTACTTCGGAGACACCTGTCTGCATCTGACTGAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCTGGCGGCGGCCACCTGCAGTAGCGTTTCGCCGAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCGTTTCTATTACCCCTGGTTCGCACTGCTGCCGCCCGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGCAGCGCGCCCTTGGCCAGGACCGGGGCTTCTCTGTTGTCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCAGCCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCACACAATCAGATGGTGGTGCCTGCGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGGCCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAATCATTCAAGAAAATTTAGACAAGTTAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTGCAGACGCTTATGCCC
AGTACCTCTGGATCAGCTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCATTTCGGGCAGCTGATCTCC
TCCTACACAGTAAGGCTTCAACCTTCTTGGGCTTTCAGAGTCCACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTAGGAACATGTCAAGTCTTTTCTTGGGGAATTGATCCCTATGACA
AACCATAATACATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTCTTCC
AGTCCCGGGAACAGGAAGTATCTTGGAGGAGTATTTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCA
TGAGAGCAGCCCAGTTTGTACAAGACATCTTATTAATGAATATTACATCGCAGATGCCCTCCGAGGACCAGGTGT
TTGTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCGCGCAGTGACACCTTGGTGAGGTATTTTGAATGAAC
CATTTGTGACTTCCACCGAGTGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTATGTTTCTATGAATG
AGGAGAACATGAGATCGGTATCACCCTTGACAAAGGGGGAACCTGGGAGTTTCTTCAGGCTCCAGCCTTACCGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCTTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCATCTGTCCAAGGAGTGGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACATGAGGAGACACGGCGGAATCATCAGGCCATTGCCAGGGCATGGAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAAAACATTCTCTCTGAGAAGCCAGTGTGTTGTGTATG
GCCCTCTCAGAACCTGGGGAGAAGAGCACTGTCTTACCATCTTTGGCTCGAACAAGAGAATGTCCACAGCT
GGCTGATCTCCAGGTCAATGCCACGGATGCCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC
CATCTGATGAGCGGGGGAATGAGTGTGTTGTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCGGTGGTCTGTGCTCAACTGCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCGGTTTCAAGATGAGTGAAGATTGTGATTAGAGGTTTGTGTTCCAGATCCGGAATTTCTGGAAGTCAT
ACTCCCTCTGTGCTTGGCCTGTGGGTTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTGTAGCGGAGGAGATGTTGAAGCGCGACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCCTCA
CCGGGCTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCAAACTGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCCTCGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTATCGGAGCAATATGGATGGT
CTGCTGCCTATCAGCTGGTGTCTGAGGATGGAAGTGGCCCAATGGCATCTCTGTGGACGACCACTGGATTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCAGTTTCACTGGCCAGCAGCGCTCTGTCTTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTACAGCTCAGCATATTCC
GAGCTTCAAATACAGTGGGTCCAGATGGAGATTCTGGCAAAACAGCTCACGGGGCTCATGGACATGAAGATT
TCTACAAGGGGAAGAACTGGAAGCAATGCCGTGTGTGCCAGGCCATGCAGCCTGCTGTGCTTGGCCAGGGCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACAGTATCGCT
GCAGCAACGGGAACGTATCAACAGCATTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT

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FIGURE 989B

CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
GTGACGAGTACAACIGCAGTTCCGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCAAACGGCACTTGCAATCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCTCTGTACGCACCTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCCGTTTCCAGTGTGAGAATG
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACA
GATGGAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTACATATTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCACCCAACTTGGGCGATGTGACCGATTGAGTTCGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGCAATGAGCAGGAGTTCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAAATGCCCTCTGCAT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAGTCTTGAAACCAGATACCAGTATCAGGTAAAGTACAGGTTTCAAGTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCTGAGGACCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCATCCACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCAGAGGGCTGCTAGTAACCTTACAGAAA
TCAAGAACTTATGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAAATATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTGACACCCACAAGCAAGAGAGGAGAAGTTTGAAGTTCCGAGGAAGCATATTGTACACAAAAGTTGGCAATC
TGACAGCTCATACATCCTATGAGATTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGTAGC
ATGTTATGACCAGAGGGGTTGCGCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGAAT
GTACCTGGACCGGCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACCGTCAATTGTGCTAGTAAGGATGAGCAGTATTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT
CCAACCTGAAGATGGGTCAATAATTACAGTTTACCCTCCAAGCAAGATGCCTTTTTGGCAACCAGATCTGTGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGCCATCTTATTCCTGATACTGCTGAGCCTGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTTCAGATGACGTCC
CCATGGTGATAGCTTGAAGAGCTTTCCTCACTAGAAACCAATGGTGAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCACCTTGTAGTTGCAATATGTTATTTTATATGGGCCAAAAACNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNGGAATGAATAAACTTTGTAGTAATCAACTGTGAACCTCAAACCAGGTTGATTTTA
GTAACCAATTGCTTTGATTGACATTAATGTAGTCTTACAGGGCTGTGCTTGCTGGGCATGCTTTTACGTCTGT
GAGATAATTTCCGTTTCAGTAAATTGGCCAATCTTTTATTTTCTAAGACACAGAAATGTATTTAATAAAAACTT

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FIGURE 989C

CGAGAGAGTGATGGGTGGAACCCCTTCTCCTTGAAAGTGTGTACAGATATTCCATTTTGTGGATATAGTTTAT
AGGAAAGTGTGTGGATGTATTATGGCGGAAGGTTTCTTTATGTTATTTTGTAAATTTATGGGACTCTGTGTAAG
GCCAGGCTTTAGTGGTCATTAGACACCCACATGTGTTATGAGCCCTTACCCATAGGGTTGGGGGTGGGAAGAGAA
GCATATTTTTTTGCCATTCCGGAAGCAATCCATTTTTATTCACTTGTGTGTCATGTAATGGTCTTTGGCAGGAGA
GAGCACTGAGTCATTGCTGGAGTTCACTTCAACAGAGCTGCAGCTTGGGAAGCCCTGTAAGCCACAGCTTCCTC
TCTTATATTAATTGATGGAATTTTACTGTATGTGCCTCTGTACAAGATGTAGCTTTGAGAGCTACAAAATGATAA
CACTGCTTTATTACACACTGGTTTCATTGTCAATTGCAAAAACCTTACCCTGGTTGTGGGGGAGAGTTCTAGATCTG
TGCCATGATCCATACACTGGCTAATAGAGTACATAATTTTTCCATTTTCCATTTTTTGTCTTACTTACTACTGA
AGGATCTCAGATGTAAATTTATGTATTTGGTTTGAGATGGCCACTTATTGTCCTTAAAAATCCATACTGATATAT
GCAGTCATTTTGAATTGGACAGTGCCTTCTCTTTTTTTTCTCCTCTTCTCCATCTCCCTCACCCATGCCCCCA
CCCAATCTAAAGAGACAGTGTCTGTACATTCTCATAGAGATAGAGAAGATCTAAAAAGTTGAGACTACTCAATCCA
GTAAACAACAGCAGGAGCACTAGAGTTTGTTCATTTATTCTCTCTGTAAACAAGCTGTGCTTTTTTCTCTGTC
CTTTAAAAATGCCACCCGTGTATTCAAACCATGGCCACTTGATACTTATGTAGAATCCATCGTGGGCTGATGCAAG
CCCTTTATTTAGGCTTAGTGTGTGGGCACCAATGTCGAGCATCGTTGTGACTTGTGCTGTATGATTCTCACTGA
AGAATTTCTTTTCAGCCAAGAAGCAGTGAGGTCTGGGAATATTCCAAAGTCATGTCTCTGAATATGTGCTCTGA
CGTGCAAGCTTTGTAAAACCCCATCCCCGCTTAGGTGCGAGGCATCACCTTCTCACAAGTGTTTAGTTTCTTTTA
ACCACAAGTATCATTCTTGGGTGATAATATAGTTTCATTCTACTTAGGGATTGTTTAGAAAACAAAGAAAGAGCC
AATTAAATTTTTTAGTTTTTGAATTTTTTATTATATGTATACTTAGATGAGTATTTTAAGCTGTGACCTTTAG
TTTGCCATACGGGTAGGACTGTATTTTCATGTTAAACAAGTGGTGAATGATAAGCCTTCTCTAGCGTATTTTCT
CTTCTTTCTGTCACTTTCTAAGTTTTTTTTTTTAAAGACTGGAATTTTTTTGGCTTTTATCTTGTCTTACCGT
AGAGATTTGTCAAACCTCTAAGCCCTACCACTCCCTTTAATAAGCTCTTAAATAGTTGAATCATTAAACAC
CTGGTGGGAGGCAAGTCATTTAATTGAACCACTAGGAAGTGATTTTCTTTTCTTTTCTGCCAACTTTTTGGTG
GCATTTGTAAAAGCTGATATAAAAGGCTCTGAGATGTTATTTTCAGTTATTCATAGGCAAGCCTTTTTACAGAG
CATATGCTCTCCAGTTGGCAGCTTGAGATATTTCCGAGCATCCGGTTCTAGCTACCAGTGCCTCCCAATGCTTAGT
GCACAGTACTGTAGACTGGCCATCACCCCTCTCCTTGGAAAATGCCACTGTGCTGTTTGAAGAAAAGCAGCCTT
TAGGGCTAGAGTATTTTATATAAACAGAGAGCTAAGTTCTCGAAGACTAAGCTAGATAGCTGCAGCTATATGTA
AATTGTATATTTTATGAACCTTTGAAGCACACACTCCTGTTTCCCTCTGTGTAGCTTTGTGGGGATTTCATGTA
TATATGCTGTCTGAAAGAATCCAGAGGTTGGAGTGCCAATAGAAAATGAAACAAATGCCTTGTAACAGGCAG
CCTCTGAAGGTGACCACATACTGTCTTCACTGTGACCAATCGGAGTCCCTGCTTGTGTGAAGAAGGGGCTTT
TGTACCTTGTGGAGATGCCACCTCAGAAGTTCACACTGTGACGAGAAAAGGTTTTATTCTCTCTGGCATACAT
TAGAATGTCAAGTGCCTGCATCCATGTGGACCACGATGGGCCCTCTAAAAATGGTGGGCAGGGGGTTGCTTATG
AGTTTTCTCTGGAAACCGATTTTACTCCTGGATGTATTGAATGCCCTTGAGCTTTATGAGATACGAGTCCACAT
GGATAAAATGTTAGAGAGTGGAGTTCTACAGAGGATTCCAGGAAGAGGCCATGTCTGTGCAGTCCCTAGTTCCAGA
CAGGTGAGAAGCTCCAGGAACCTACTGGCTACCTTGACAAGCTGGGTAAATAGTTATCATTCTGGGTAACTGGTTG
AACTCTGACTTTTGGACAAGTAATTCCTGGGGTCTGTCTTTGGTAGCATCACCAGGGATATTGGGTGGGACA
GACAGAAGACACACAGCTGCCTGTTCTCTCTGCCCATCATGTTTGGCCCACTAGATGAAGCTGTACTCAGCAAT
TTAGGGAATGTAACCTTCTCAGAACTGGCCATTTTCAGGGGAAGCTTGGGAGAGCAATAGTATGGTGAGCCCT
TAGAGATGAGCGCTACTCCTTCTTGGCGAATGCTGCCTTCAGATGCTTACCAAGTGGTCACTGCATCTAGTAAG
ATTATATTTCCAGTACACTTCTTAGGGCAGAAACCAATCCTATCAGGTTTGGTCAGTCCCTTCTCATGAAGG
GAGTCATGGGGAATTCCTGAAAATTTCTTCTTCTGCAGACAGTTGGATGAGTCCCTTAGAGAAGGCATCCAGA
GACATAACTAACTGAATATCATCCCATATTGATTTTAGGAATTGACTCTAAACTCTGTGCAGAACTCTTGTGTT
GGGATTGTATCTTGACATTCTGTTGTGTTATTTTCTTAACTGGAGTGTGTGCTGCCTTTTCAGGTACAATTTT
GTGTAATAAAAGCCAGTGCATTAAAGTTTATATAGACTACTTTCTATGCAAGACTGAGATATGGAATAGATAGGAA
GAGATATGTACTGCTGGGTACATGGACAGTAAGTGTGTTTTTCAGATGGAGTACCAGCACCGAAATGGGTTGAGG
GAGGATGGGTTGTATGTATGTTTCTGCCCACTAATTTGAGCAGCCATATTATGAATTAATCGTCACAGCCAAG
TAATAACCCAAGAATGGTATGAGTTTCATGTGTAATAGCTCAAATGGAATAAGCATGAATGCTGGAGTGGACCAT
TATCTCAAATATTCTATGTCACTTCTCATTTAAAGACTCTTGTATGAACCTATTAGAACTTTAGGCCAAATCA
AAAGTATTTGCGGCAAAATAAAGGCCTATTCTACTCTTATTTAAAGTGAAACACTGTATACTTGTCTCTCCAA

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FIGURE 989D

AGCGAAATTAAGTATTTATAATTTCAATTGCCTCGATAAGTTTCCAAGTCACTGAAATCTGCTGAAGGTTTTACT
GTATTGTTGCACAACCTTTAAGATAATTTTGTCTCAATGTCAACTTTTTTCACTGAATAAAAAATTTAACTGGGTC
AAGAAAACACCTCTTTGAAAATCCACTGTCTCTGTGTGCTCGAGCTGTTCTTTAGAGCGCAATAAAGATGGCTG
ACGCAGTCTCCAAACCCC

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FIGURE 990

AASVTFPLAWLSLILWGFSLGAGPRISQRWYFGDTCLHLTEPALLASRCTFSPGGGATCSSVRPNMATRSSRRES
RLPFLFTLVALLP GALCEVWTQRLHGG SAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRS AAL
QPEPIKVYGVVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARP KSSDVVVS YDYGKSFKKISDKLNFGLGNRS
EAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGF SIFRAADLLLH SKASNLLGLFDRSHPNKQLWKSD
DFGQTWIMI QEHVKSFSW GIDPYDKPNTIYIERHEPSGYSTVFRSTDFQ SRENQEVILEEVDRDFQLRDKYMFAT
KVVHLLGSEQSSVQLWVSFGRKPMRAAQFVTRHP INEYIADASEDQVFVCVSHSNRTNLYISEA EGLKFSLS
LENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPFTG
YGEKINCELSQGCSLHLAQRLSOLLNLQLRRM PLSKESAPGLI IATGSVGKNLASKTNVYISSSAGARWREALP
GPHYTTWGDHGGIITAI AQGMETNELKYSTNEGETWKT FIFSEKPVFVYGLLTEPGEKSTVFTIFGSNKENVHWS
LILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVSNCSCTREDYECD
FGFKMSEDL SLEVCVPDPEFSGKSYSPVPCPVGSTYRRTRGRYRKISGDTCSGGDVEARLEGE LVP CPLAEENEF
ILYAVRKS IYRYDLASGATEQLPLTGLRAAVALDFDYEHNC LYWSD LALDVIQRLCLNGSTGQEV I INSGLETVE
ALAFEPLSQLLYVWDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPQEGVMFWTDWGD LKPGIYRSNMDGS
AAYHLVSEDEVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHFYAIAVFKNEIYWD DWSQLSIFR
ASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSL LCLPKANNRSRSCRCPEDVSSSVLP SGDLMCDC
PQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWCD FDNDCGDMSDERNCP TTI CDLDTQFRQESGTCIPLS
YKCDLEDDCGDN SDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASN FQCRNGH
CIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLCTHFMDFVCKN
RQOCLFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKV CDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCE
NPTEAPNCSRYFQFRCENGHCIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYRCSSGTCVMDT
WVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDG HQDQDGRDEANCP THS
TLTCSMREFQCE DGEACIVLSERC DGFLDCSDESDEKACSD ELTVYKVQNLQWTADFSGDVTLTWMRPKKMP SAS
CVYNVYYRVVGESIWKTLETHSNKNTNTVLKVLKPD TTYQVKVQVQCLSKAHNTNDFVTLRTPEGLPDAPRNQLS
LPREAEGVIVGHWA PPIH THGLIREYIVEYSRSGSKMWASQRAASN FTEIKNLLVNTLYTVRVA AVTSRGIGNWS
DSKSITTIKGVIPPPDIHIDSYGENYLSFTLTMESDIKVN GYVVNLFWAFDTHKQERRTLNFRGSILSHKVGNL
TAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYATSFLDLYRNP
KSLTTS LHNKTIVIVSKDEQYLF LVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHVHTGKTSVVIKWESP YDSPD
QDLLYAI AVKDLIRKTD RSYKVKS RNSTVEYTLNKLEPGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITE
NDHVLLFWKSLALKEKHFNESRGYEIHMFD SAMNITAYLGNTDNFFKISNLKMGHNYTFTVQARCLFGNQICGE
PAILLYDELGSGADASATQAARSTDVA AVVVPILFLILLSLGVGFAILYTKHRRQLQSSFTAFANSHYSSRLGSAI
FSSGDDLGEDDEDAPMITGFSDDVPMVIA

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FIGURE 991

CGGACGCGTGGGCGGCCGGCGCGGTGGGGCATGSCGGGTTTCGGGGGTGCGGGGCGCACGGCGGCGCCGAGCG
TGCGGCCGAGAGAAGCGGCGGTCTGAGCCCGAACTGGAGCCTGAGCCCGAGCCGAGCCCCCTCCTCTGCACCT
CTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCTCCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAG
ATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCGACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGG
GCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGCAGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGA
GCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTGATGAGGAGGACATCCGGAACACGGTGGGCAACGTGC
CCTTGGAGTGGTACGATGACTTCCCCCAGTGGGCTACGACCTGGATGGCAGGCGCATCTACAAGCCCTGCGGA
CCCCGGATGAGCTGGACCAGTTCTTGACAAGATGGACGATCCTGACTACTGGCGCACCGTGCAGGACCCGATGA
CAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCCTGGTGGCGGGCTGCAGAGTGGCCAGTTTGGGGATG
TGGGCTTCAACCCTATGAGCCGGCTGTGACTTCTTCAGCGGGGACGTCATGATCCACCCGGTGACCAACCGCC
CGGCCGACAAGCGCAGCTTCATCCCCTCCCTGGTGGAGAAGGAGAAGGTCTCTCGCATGTTGCACGCCATCAAGA
TGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCCCAAGCTTCTATGACCTGTGGGCCAGGAGACCCCA
ACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGTCTCCAAGCTGGCCCTGCCAGGCCACGCCAGTCTGTACA
ACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCTTGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGC
TGAGCTTTTGGCCACGAAGTTCCCGAGCCTGCGGGCGTGCCCTGCCTACGGACGCTTCATCCAGGAACGCTTCG
AGCGCTGCCTTGACCTGTACCTGTGCCCCACGGCAGCGCAAGATGAGGGTGAATGTAGACCTGAGGACCTCATCC
CCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCACGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACC
TTGTCCGGTGCCTCAGTGTCTCTCTGGGGGCCAGTGGCTGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCT
GGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCGTGGGGGGCGTGGTGAAGAGTGTGGCTGGAACCCCA
GCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACTCGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCCGC
TGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCGTCCCGCCTGAGGAGCCCCCTTGACCCGGCCCCGCT
GGCTGGAGGCCTCAGAGGAGGAGCGCCAAGTGGGCCTGCGGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGG
TGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGTGCGCACCCAAAGGCCACACCCAGGTGCTGATTACCC
AGCTGAGCCGTCGCCGCAGCCAGAGTCCGTTCCGCCGCAGCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTG
CCCGGCCCTTCTGTGGTGGCGTCCCAGCGCAGCGTCCGCCCTTACCACCTGCTGCGCCAGGAGCTCACCAAGA
AGCTGATGCCAACTGCAAGTGGGTGTCCAGCCTGGCGGTGCACCCTGCAGGTGACAACGTCATCTGTGGGAGCT
ACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCACCAAGCCATACAGGATGCTGAGACACCACAAGAAGG
CTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCTTTGCGTCAGGCTCGGACGACGGCAGTGTATCGTCT
GCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCCTTGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGC
TGACCCGAGATCTGGGAGTGTGGACGTATCTTCCACCCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACG
GGACTGTCCGCCTTTCACCTTAGCTGTTCTGCCTGCCTGGGGCTGGGGTGGTCTGTGCTGAAGTCAACAGAGCCTT
TACCCTGAAAAAAAAAAAAAA

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FIGURE 992

MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPPLLCTSPLSHSTGSDSGVSDSEESVFSGLSDSGSDSSEDD
EGDEEGEDGALDDEGHSGIKKTTEEQVQASTPCPRTEMASARIGDEYAEDSSDEEDIRNTVGNVPLEWYDDFFHV
GYDLDGRIYKPLRTRDELQFLDKMDDPDYWRTVQDPMTGRDLRLTDEQVALVRRLQSGQFGDVGFNPYEP
FFSGDVMIHVPTNRPADKRSFIPSLVEKEKVS RMVHAIKMGWIQPRRPRDPTPSFYDLWAQEDPNAVLGRHKMHV
PAPKLALPGHAESYNPPPEYLLSEEERLAWEQQEPGERKLSFLPRKFPSLRAVPAYGRFIQERFERCLDLYLCPR
QRKMRVNVDPEDLIPKLPRPRDLQPFPTCQALVYRGHSDLVRCLSVSPGGQWLVS GSDGSLRLWEVATARCVRT
VPVGGVVKSAWNPSPAVCLVAAVEDSVLLNPNALGDRLVAGSTDQLLSAFVPPEEPPLQPARWLEASEEERQV
GLRLRICHGKPVQTQVTHGRGDYLA VVLATQGHTQVLIHQLSRRRSQSPFRRSHGQVQRVAFHPARPFLVASQR
SVRLYHLLRQELTKKLM PNCKWVSSLAVHPAGDNVICGSYDSKLVWFDLSTKPYRMLRHHKKALRAVAFHPRY
PLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHVLRDLGVLDVIFHPTQPVWFSSGADGTVRLFT

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FIGURE 993A

CACTAGAAATGTGAAGGATCTTCGCGGTTCTGGGTGCCAGAAAGGCGGCGACGCGGCGGATGACAACATTAGTGC
CGCGACCGCTCCTGGCCAGGCGGCGGCTGTAGTGTAGCTTTGGACGCCGAGTAGCCGCTGCCGGTAGCAAGC
CGACTGAGGGAAGGTGGGGTCCGCCCGGGCTGGTGGACCTCGGGGCCGAAAGTTCCCGCCCCGCTCGGGGGCTG
AGCCGCGAGTGCCTCCGCGGCCGCTGGGCAGCGCCCTTCGTCCAGGCTCGCGCCCCAGCTGCCGCCGACGACAGC
GGCCGAGAGAAGTTGGGGTCTGACTAGACGCTTACGGGGCTCGGACCCCGGCGCGCGGCGACCTCGGAGGAAC
CGGCTCCTTGCGTCCCGCTCCCTGGGAGCTCCGCACGGGATTTGCAGATTTACAGAATGGCTGCACATTAATGG
AAAGAGAAGCATAAACCTATCTTCTTTTATTATGGAGGGAGGTTTGGCAGATGGAGAACCCTGATCGAACTTCGCT
TCTTGGTGATAGCAAAGATGTCTTGGGCCATCAACTGTTGTAGCAAACAGTGACGAATCTCAGCTTCTGACACC
AGGAAAGATGAGTCAGCGCCAAGGAAAAGAAGCTTATCCAACGCCAACCAAGATTTGCATCAGCCATCTCTTAG
TCCAGCAAGTCTCATAGCCAGGGTTTTGAAAGAGGGAAGGAAGATATTTCTCAAATAAAGATGAATCTTCACT
TTCTATGTCAAAGAGCAAGTCTGAATCTAACTTTATAATGGCTCAGAGAAGGACAGTTCAACTTCAAGCAAAC
CACAAAAAAGAATCTCTTAAGGTACAAAAAGAAAATTACCGAGAAGAAAAGAAAAGAGCCACAAAGGAGCTGCT
CAGTACAATCACAGATCCTTCTGTATTGTATTGCTGATTGGTTAAAGATTCGTGGTACTCTAAAGAGCTGGAC
CAAGTTATGGTGTGTGTTGAAACCTGGGGTGTACTGATCTATAAAACCCAAAAAATGGTCAGTGGGTAGGAAC
AGTTCTTCTGAATGCCTGTGAAATCATTGAACGTCCATCAAAAAAGGATGGCTTTTGTTCAACTTTTCCATCC
TTTGGAGCAATCTATTTGGGCAGTGAAGGGTCCAAAAGGTGAAGCGGTGGATCCATTACTCAACCTTACCTAG
CAGTTATTTGATCATCCGAGTACTTCAGAGTCAGATGGAAGGTGCTGGATGGATGCTTTGGAGTTGGCTTTGAA
ATGTTCTAGTCTTCTTAAACGTACAATGATCAGAGAAGGAAAGGAACATGACCTGAGCGTTTCATCAGATAGCAC
ACATGTGACTTTCTATGGCTTACTACGTGCTAACAATCTCCACAGTGGTGATAACTTCCAGTTAAATGATAGTGA
AATTGAACGACAACATTTTAAGGACCAAGATATGTATTCTGATAAATCTGATAAAGAAAATGATCAAGAACATGA
TGAGTCTGATAATGAGGTGATGGGAAAAGTGAAGAAAGTGACACAGATACATCAGAAAGACAAGATGACTCATA
TATCGAACCTGAGCCTGTTGAGCCTTTAAAGGAGACTACCTACACTGAACAGAGCCATGAAGAACTTGGAGAGGC
AGGTGAGGCTTCTCAAACAGAACTGTATCTGAAGAAAACAAAAGCCTTATCTGGACACTATTGAAACAAGTCCG
TCCTGGCATGGACCTATCCAAGGTGGTTCTGCCTACATTTATTTTGAACCCCGTTCTTTCTGGATAAACTTTC
AGATTACTACTATCATGCAGATTTCTATCTGAGGCAGCTCTGAAGAAAATCCTTATTTCCGTTTGAAGAAAGT
AGTGAAATGGTATTTGTGAGGATTTCTATAAAAGCCAAAGGGACTGAAGAAACCTTATAATCTTACTTGGCGA
GACTTTCCGTTGTTTATGATTTCATCCAGAACAAACAGCAAACTTTTTATATTGCTGAACAGGTGTCCCATCA
TCCACCAATATCTGCCCTTTTATGTTAGTAATCGAAAAGATGGATTTTGCCTTAGCGGTAGTATCTTGGCTAAGTC
TAAGTTTTATGGAACCTCATTATCTGCAATATTAGAGGGAGAGCACGGTTAACTTTCTTGAATAGAGGTGAAGA
TTATGTAATGACAATGCCATACGCTCATTGTAAAGGAATTCTTTATGGTACAATGACACTGGAGCTTGGTGAAC
AGTCAATATTACATGTCAAAAACTGGATACAGTGAATACTTGAATTTAACTAAAGCCATTCTTAGGGAGTAG
TGACTGTGTTAATCAAATATCAGGGAACTTAACTGGGAAAAGAGTCTTAGCTACTTTGGAAGGTCAATTGGGA
TAGTGAAGTTTTTATTACTGATAAAAAGACTGATAATTCAGAGGTTTTCTGGAATCCAACACCTGACATTAAGCA
ATGGAGATTAAATAAGGCACACTGTAAAATTTGAAGAACAGGGAGATTTTGAATCAGAGAACTCTGGCAACGGGT
AACTCGAGCCATAAATGCCAAAGACCAAACTGAAGCTACCCAAGAGAAGTATGTTTTGGAAGAAGCTCAAAGACA
AGCTGCCAGGGATCGGAAAACAAAAAATGAAGAGTGGTCTTGCAAATTTTGAACCTTGATCCACTCACAGGAGA
ATGGCATTACAAGTTTGCAGATACCCGACCATGGGACCCACTTAATGATATGATACAGTTTGAAGAAAGATGGTGT
TATTCAGACCAAAGTGAAACATCGTACTCCAATGGTTAGCGTCCCCAAAATGAAACATAAGCCAACAGGCAACA
GAAGAAAGTAGCAAAAGGCTATTCTCCCGAACCTGACATTCAAGACTCCTCTGGAAGTGAAGCTCAATCAGT
AAAACCAAGTACAAGAAGAAAGAAAGGAATAGAACTGGGAGACATTCAGAGTTCCATCGAATCTATAAAACAAAC
ACAGGAAGAAATTTAAAGAAATATTATGGCTCTTCGAAATCATTTAGTTTCAAGCACACCGGCCACGGATTATTT
TCTGCAACAAAAAGACTACTTCATATTTCTCTGATTTTGGCTTCAAGTCATAATAAACTTCATGTTCAAGTA
GAAGTTCTCTACCATTTGAATCAGTGAAC TAGAAGATCTGATTTGGCCTGGGACCAAGTGTTCAGTTGGTTGGT
CTTTATTAATAAATCACAATATTCGAAAACAAAAAACCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATC
TTTTATCTTCACACTGAAACAAGAGCTATCCTATTTGATTATTAAGTGAGCTATGTGTTAAGTGCCAGGACATT
TCTAGCTTTTGTGAGAATGTGTCTACATATGAGTATAATAAACCACATGTATACAAATTGTCTCTTATGTACT
CCTACCTGACAGTAGTCTTTGTATTCTATAGTATGTTCTGAGATATAATGTTAACATTGTTTATAACAAAAAATG
CTATCAATCTTATAAATATATGTAATCTATTTCTTCATAAAACAGGCACAAAAGTTTTATCAGTAAGGAATTAC

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FIGURE 993B

AGATTGAGAAATGATGGAATAATAGACATAATTAATTCAATACACTACTGTTAAATCATTGCAAAGCACTCAG
CTCAATTATCTTCTTAGAAAGAAAGAAAAAGTATGAATGGTCAAAATGAATACATCGAGAGAGATAAATGGCAAA
TTGCTTTTTTAAAGTTTACATAAGTTTTTTTAAACCCCTAGAATTTAATATTTGTAGATGCAGGTAAATATATA
TACTTACGTGTATATCAGTATAAAAACACTGGTGTGCAATTAATTGGATTGATTATAATACCACCTTAAGCACTT
GCTGAAAAAAGTGTGGTCAAAATTGATTGCTGTCCTTTTGTCTTATTTTGTCTTTCTTAAGTCAGCTGGTTCAT
AACATAGGCCAAATTCTAGAGATGTTTATAGAGCATTGAAGTGTGATAATTTATGTTTTTCATTATGAAAAC
TTATTTTAGCTTTAGACTCCAGTGTGTTCACTGAATAAGTAGAATATAAAAAATATAACCAGTATTTTACTTCA
AAAGCCAAAAAGAGGCAATAAGAAAAGACACTTTGTGGTGGCCTTTATGTGTGCATTAAATTTGGTTTCTGTAAA
ACGTGTAATAAGTTGAGTATCTACGAAGAGTATCAAGTTCTGAAGTTTAAATTTTTTATTATCCTCCTCTCTCT
TAGTAACCTCTTTCTGTGGCAAAACCACAATTCTTTAAGATTCTTATTGTTCAAGGCTAAGGCAATTTTTTGT
TGTTTCTTCAGTTTAAATATTTTGAATTTTGTGTTTTTACGTAAATATTTATATCTTGAAGCAATTTTTGCCAA
GGTAGTTCACTTTAGGAATATGTTGTTCTAAAATATGCTTAGAATCTGAAAGCATAGATTTGAAATGTTTTT
TTAATGAAAAATGAAGGTCAGAGAGAATAATTGCCCTGACCACATTTGCCCTTCAGTAGGAGGAGGCTGTGAAATA
GTAAATTTATAATCGTTTATGCCATGATAAATACAAGATTGGTAAATAAATACATTGATTGGTAAATTATGAGAA
TCAAAATGATAAAAAGAGCCTGCTTTTTTCCCTAACCAATATAGCTATCTTAAGTATCCTTAGGTTTCTGTGAAG
AACCATTTCCTCATGTTTTCTTGGCAAAATAATGCTGTATTCCATATGTACATGTGAATGATGTTTTAAATTGAT
AAAAGCTTAAATAAGATCTACCTATACCCAGTATTTTCATGATATTAGAACAATGGGTTTTTGGTTATATTTTA
TATTTGTCAATATAATTTTTGTATTACATTCTGTTACACTCTGCCTATTTCATTGATATATGATATTCTGTAAAT
ATTGTACAATTGATCTTTTTTATGGTTTTAAATTAGTTAATTACATACAAATTGATTGGCTTATCACAAAAATCA
TTTCATCAGTAAACCTTGTTAACATTTTGTACTGGTGACCCACCTCTTAGGACTTTGGTCTTATCCACGTGTATG
TTGTTTTTCAATTTGGTCCAAATAATTTTTATTGTATGGGTATCTTCTAAGACTAAATAGGTAGTTGTGTTCTTT
ATTTTTAAATTTCTTTTTTAGAGCAAATGTTATGGGTTCTTACCCAAAGAGTCAAAAATCTATTCTTAAGAAAGA
GCAGAGTTATTTCATGACTGTTCTTTATACACTAAAAGCATGCATCTAATCTAATAGTCCTCTTATTATGCTTTTA
GTTGTATGAGTCTCTTTCTATGAAGTGAACACAAAACCTCAGGAATTGGTGGCTTAATTTTAGATCAGTGTGTTA
CTAGGCTTAGTTATATGAATCTTTATAACACATAATTACTAATTTGTAGCCATATATGTAATTGACTTTGAATG
TTATTTACCTGAAATTAATCTTCTTTCACACATGGACCGTAAACGGTTCCAGTTGTCTGAGAGCCTCATGAGGG
TTTCTAGGATTTATGACCTTATGACCAGTTTTTTTCATTTACCAAGATTTTATTTTCTACATGAAAATTTAATT
GAGTAATAATTATTCACATGTGCATTTTCTTTTAGCTGTTAAATGTACTATGCCATCATCCACCATTTAGTAAA
ATGTAGCTGGCCCAGGACATGTAAAAAACAACAACAATAAATAGGGCATGTGAATGTTAAGTTA
CAGCAATAGATATTTTATTTGATTTCATGTTAGTACTTTTTTGTGTTTATATCACTTATAAAGGTACAGTGTACT
CTTTGTACAGCTCAGTTGGTAACCGCATTCCATTGAAAAGTTGGCCTTGTAATAACAACCTCATTAAATATT
CATGCTTTTTGTGCTTTAAGAAAATATTTTTTGTCAATTTTTTGTGTTACAGAACTATAATGTGATTCAAGGTGTT
TATAGGCTTGTCTATAAAGGGTCATTTCTGTGTTTACTTTCTTTTATATAGCTATAGTATATTTAAACAATAA
TACTATCTTTTATAGGGGTTTGCTATTTACCTATTCTTTACTCAGACATTGATGTAGACTTGTGAGATTATTCT
GAGTATTGTTAACAGTGCCTTTTCGATGGAATCACACTTTTGGCTGTACCTTGTGCCATATACACACAAAATT
TTGTGGAAGGCAGTTTTAACTTTCTGAAGAATATCTGTCAAAATTTAAGAAAACAAATGTATAAAATCCATTTT
TTCCAGTGTTTAGCATTCTAGTAAGCAGTGAGGTTGTTTGACATACAGTGTATGATGGCATTATTGATAAGCCAT
ACATGAGACTGCAGATTATATTGAATCATATTAATGTACAGAAATAAAATATTAGATTTATATCAAATTTTCCA
ATTTGAACAGTGGGGAAAAATCCCACAGAAATCAGTAAGTTTACATTTCAATTTCTATCTTATTGACTAAGTGG
AAAGAGATTCTTTAAATGTATAACCTGCCATTATGTAATTTGGTTTCAATTTATTCTACCTGTTGTGTGAGTTT
AGTATATTTAATTTACTTTTTGTTACTCTTTACATACTGTTTATTTTTGTTAGTTTTTAATTGAAGATGGACTGT
TGAAATTGTATAGGACAGTGTCTTATTAATATGATTAAATATATTTAGAAGAGCCAGTGAAACCATGACAAAA
TGAATGTGAATATTCTTTCTAAAAATTTAGAAAATGTTATCTTTTTGCATTTATTATGTAAAACCTGTTTACAGT
ATCAAAATTTTTCACTTAAAGAAAAAAATGCCATGAACATTTGAAGTGTGAGCCACAGAACTTCAGTTGAAA
TTTTTTTCACTTTTATGATGCTAAATATACATCTGAGTTTAAATGTTCTGTTTAAATGGCCATTCTAAATTTCAA
GCACTACCACTGGTCACTTTTGTGTGATAGAATAAAAAATATGTTACCTGCAGTGTAAGTACAGCACACTGTCAAA
TTCTTTTCTTAAGGTGCACAGTAAATGTACAGATAGTTATAGGCCACTGTTTTGTAATGTAGTACATTCTAAT
CTATTATTCCTAACCTATTATAACTGTTTGCAGAAAGAAAAGAATTTTTCTAATAATCTGTAAAATTATGCTAAC

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FIGURE 993C

TTCTACAAGTAGGCTTCTAAATAAAATTTTAAAAAGAGC

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FIGURE 994

MEGGLADGEPDRISLLGDSKDVLPSTVVANSDESQLLTPGKMSQRQGKEAYPTPTKDLHQPSLSPASPHSQGFE
RGKEDISQNKDESSLMSKSKSESKLYNGSEKDSSTSSKLTKKESLKVQKKNYREEKKRATKELLSTITDPSVIV
MADWLKIRGTLKSWTKLWCVLKPGVLLIYKTQKNGQWVGTVLLNACEIIERPSKKDGFCKLHFPLEQSIWAVKG
PKGEAVGSITQPLPSSYLIIRATSESDGRCWMDALELALKCSSLLKRTMIREGKEHDLVSSDSTHVTFYGLLRA
NNLHSGDNFQLNDSEIERQHFKDQDMYSDKSDKENDQEHDESNEVMGKSEESDSDTSDSERQDDSYIEPEPVEPLK
ETTYTEQSHEELGEAGEASQTETVSEENKSLIWTLLKQVRPGMDLSKVVLPTFILEPRSFCLKLSDYYYHADFLS
EAALEENPYFRLKKVVKWYLSGFYKKPKGLKKPYNPILGETFRCLWIHPRTNSKTFYIAEQVSHHPPISAFYVSN
RKDGFCLSGSILAKSKFYGNLSAILEGEARLTFLNRGEDIYVMTMPYAHCKGILYGTMTLELGGTVNITCQKTGY
SAILEFKLKPFLGSSDCVNQISGKLKGKEVLATLEGHWDSEVFITDKKTDNSEVFWNPTPDIKQWRLIRHTVKF
EEQGDFFESEKLWQVRTRAINAKDQTEATQEKYVLEEAQRQAARDRKTNEEWSCKLFELDPITGEWHYKFADTRP
WDPLNDMIQFEKDGVIQTKVKHRTPMVSVPMKHKPTRQKKVAKGYSSPEPDIQDSSGSEAQSVKPSTRRKGI
ELGDIQSSIESIKQTQEEIKRNIMALRNHLVSSTPATDYFLOQKDYFIIFLLILLQVIINFMEK

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FIGURE 995

TTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTTATAAACCTACATTTAAGGGGAATTTTTAAAGGAAA
TGTTTTTCTTTTTTTTTTGGTTTTTCGAGGGGGCAAGGAGGGACAGAAAAGTAACCTCTTCTTAAGTGGAATATT
CIAATAAGCTACCTTTTGTAAGTGCCATGTTTATTATCTAATCATTCCAAGTTTTGCATTGATGTCTGACTGCCA
CTCCTTTCTTTCAAGGACAGTGTTTTTTGTAGTAAAATCACTGGTTTATACAAAGCTTTATTTAGGGGGTAAAGT
TAAGCTGCTAAAACCCCATGTTGGCTGCTGCTGTTGAGATACTGTGCTTTGGGAGTAAAAAAGAAAGTTATTTT
TTTGTCTTAAAGAATTTTAAAAAATTAGTCATGAGACTTATTCATCTTCCAGGGAACATACTGATTGGTCTTA
AAAGACTAGACAGTTAAGTAAAAGGTGGCTGGAACATCTATTTTCTACAAAACCTGGAAAAATGAACCTGGTTCT
AGAAGAATGTACACCAAATAAAACATGTGAAGCAGTATTGATTCTTT

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FIGURE 996

LSTCFGYKAFLTFYKPTFKGNF

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FIGURE 997

GCACGAGCATAGACTTTTAAACTGGTACGGTTCTTAGAGATGGTCCTTGGCCTTCTGTTGTTGTTGKGTTTTT
TCTTTTTCTTCTTCTCCTTCTCCTTCTTCTTCTTCTCCTTCTTCTTCTTTTTTTTTTTCAGAGTCTTGCTCTG
TCACCAAGACTGGAGTGAAGTGATGTGATCTCGGCTTACTGCAACCTGGGAGGCAGAGGTTGCAGTGAGTCGAGA
TGGTGCCATTGCTCTCGTTTGGGCAACAAGAGTGAACTCTTGCTCAAAAAAAAAAAAAAAAAATGAGGTTAAGA
CAGTTTTGTCATTACTGGTGGGATCTGGTCACACAAGATAGCATTAAACGTGACATGGCACATAAAATTGGTTAA
AAAATTTTGTTTTTTAATTACGTAATGTAAAAGCCCAACAAACACTTTATGCAAGATTGGAATGTATCTTCAAAT
TCAGATTTAATAAACATGTAAAGATCCTCTGTATATAAAAGTTGTATTTAATCCCTTGTGCCCCAAGAATGCTAT
AAAAGATCCCAAGAATGTTATCTATGAAAAGATAGCAATAGGGAATGGTGAACAAATAATTTAATTTGCCAATTC
TAAAAACATGGACTTAAACCCCATGAAAACCTGGTTCCATAGTTTTAACTGTTTTATGGTTCCAATACAAAACC
AGAGTGGTTTACATTCCACAATXACCAATTTGCATCCAATXTTGGGGTAATTTXGGTATTGCCATGGGATAC
TATTCATTTTT

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FIGURE 998

MVLGLLLLLXFFSFSSSPSPSSLLLLSSFFFQSLALSPRLE

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FIGURE 999A

CTGTGTGTTTCAGCCATTACTTTGCTCGGCGCTGCTCCCAGGCATCTCCGACCCTCGGTGCTGTGGGGAGCCCCAC
ACTTGGGCTCCTCGCCTCTCGCCCTCGCTCCCCGTCCTCCTCCCCTCTCTCCGCCCTTCCCCCTTTTCTTTCT
CCTCTCTTTCTTCCCCCTCTCTCCCTTCTTTTCGGCCGCGCTCTCCCCGCGCCCTCTCGGGGCGGAGGGAAGCCG
TGAAGGGGAGGGAGGGCTCGGTGTCAATTTTTTTTTTGTGTGGCTGCGGCCGTAGCCTGTGGCGGCAAGCGGGG
AGACCCCGCGCAGCAGAAACATGGATGGCCCCGACGCGGGGCCATGGACTCCGCAAAAAGCGGCGGTGCGGGTCTG
CAGCGAGACCGGGAGAGGCGCTCCCGGGGCGGGCTGGGGGCGCGCGCGCGCGGGCGGGGCTGGCCGGACC
CGGGCGCTCTCACTCGCCTCGTCTCGGGCTCCGACAAGGAAGACAATGGGAAGCCCCCTCTCCGCCCTGCTCC
CGGGCCAGACCCCCGCGGAGGAAGCGGAGAGAGTCCACCTCGGCAGAAGAGGACATCATTGATGGATTGTCCATG
ACCAGCTTTGTCACTTTTGAAGCGCTGGAGAAAGATGTAGCACTTAAGCCTCAGGAACGTGTGGAGAAACGCCAG
ACGCCCCGTGACCAAGAAGAAACGAGAAGCACTTACCAATGGCTGTCTTTTCAATCAAAGAAGAGCAGACTCAGC
CACCCACACCACTACAGCTCAGATCGAGAAAATGACCGCAATCTCTGCCAGCACCTTGGGAAGAGAAAAGAAATG
CCGAAGGCACTCAGACAGCTCAAGCCAGGACAGAACAGCTGCAGGGACAGTGACAGTGAAGTGCCAGTGGAGAA
TCCAAGGGCTTCCACCGAGCAGCTCTCGGAAAGGCTCAGTGATAGTTCAGCTCCTTCCAGCTTGGGAACAGGC
TACTTCTGTGACAGTGACAGTGACAGGAAGAGAAGGCATCAGATGCCAGCTCTGAAAACTCTTCAACACTGTT
ATTGTAACAAAGATCCGGAGTTAGGTGTTGGCAGCTACCAGAACATGACAGCCAGGATGCAGGGCCGATTGTC
CCCAAGATATCGGGTCTAGAGAGAAGCCAGGAGAAGAGCCAGGACTGTTGCAAAGAGCCAATCTTTGAGCCTGTG
GTGCTTAAAGACCCCTGCCCTCAGGTGCGACAGCCAATACCCAGCCGACAGCGAGCCCCAACTCCGAGCTCCT
TCTCCGGACCTGACTTGGTGCAGCGCACAGAGGCCCCACCTCAACCCCACTCTGAGTACACAGCCACCACAG
GGCCCTCCTGAGGCCCAGCTCCAGCCTGCCCGCAGCCTCAGGTGCAGAGGCCACCCAGGCCACAGTCCCCACC
CAGCTGCTCCATCAGAACCTCCACCTGTGACAGGCCACCCCTCTGCTCAGAGCCTCTCCAGCCATTGTACAGCC
TACAACAGCAGTAGCTTAAGCCTCAACAGTTTAAGCAGCAGCAGAAGCAGCACTCCAGCGAAGACTCAGCCCGCC
CCACCTCACATCTCCACCACCCCTCTGCCTCCCGTTCCTCTCTCCCTGCCCAACCACAGCCCTCTGCACAGC
TTCACACCCACCTCCAGCCCCCGCACACTCACATCACCCCAATATGTTTGCCCTCCCACTGCTCTGCCTCCT
CCACCACCACTGACATCAGGAAGTCTGCAGGTGGCCGACACCCGCGCGGAGCACTTACTCAGAGCAAGACATC
TTGCGACAGGAAGTGAACACTCGTTTTTTGGCCTCTCAGAGTGTGACCGCGGGGCTTCCCTGGGCCCCCTCCGCC
TACCTGCGGACCGAGTTCCATCAGCACCAGCACCAGCACCAGCACACCCACCAGCACAGCACCAGCACACCTTC
ACGCCGTTCCCCACGCCATCCACCCACCGCATCATGCCGACGCCAGCACCTCCCATGTTTGACAAAATACCTT
ACAAAAGTTGACCAATTCTACCGGCACAGTCTCTTCCATTCTATCCTCCTGCAGTGTGCGGCATCCCCCTATG
ATCCACCCCACTGGCCCTTTTGGTTCACTACAAGGAGCATTTCAGCCGAAGACATCCAACCTATCGATGTGCT
GCTCGGCCTGGGACAGTCCCACACACTTTACTCCAAAAGGACCCGAGGTTGACAGATCCTTTTACAGCCTATGTTA
AGGAAACCAGGGAAGTGGTGTGCTATGCATGTTACATCGCCTGGCAGATTTACCAACCAACAGAAAGTCAAG
AAACAGATGCACTCAGACCCACATAAGCTGGACTTTGGACTGAAACCTGAGTTCTTCTGAGCCGCCCTCCAGGCCCC
AGTCTTTTGGAGCCATCCACCACCCCATGACCTGGCAGGCTTCAACTTTGTTCTCTGCGCTGGTGTGCA
CACCCAACTGGGACCCCTTTTGGGCCACCTCCTCATCAGCAACTTCTCAACCTGCTGCCACCTAGAGCCT
TTTAAATCGGCCGTCTACATTACAGGCCTAGCAGCAGTTGGTGGCAATGCCTTCGGGGGACTTGGAAATCCTTCC
GTTACACCCAACTCAATGTTTCGGCCACAAGGATGGCCCCAGTGTGCAGAACTTTAGCAACCTCAGGAACCTGG
AACCGGCTGCACCGAACGCCTCCGTCTGTTCCCGACCCCTCCGCCCTGGCTGAAGCCAGGGGAGCTGGAGCGCAGC
GCGTCCGCTGCAGCTCATGACAGAGATAGAGATGTAGATAAACGAGACTCATCTGTTAGTAAAGATGACAAAGAA
AGGGAAAGCGTCGAGAAGAGACACTCCAGCCACCCCTTACCAGCACCTGTCTCCCGGTGAATGCCCTGGGACAT
ACCCGCAGCTCCACTGAACAGATCCGGGCTCATCTGAACACTGAGGCTCGGGAGAAGGACAAACCCAAAGAGAGG
GAGAGAGACCACTCGGAATCCCGCAAGGACCTGGCCGCGACGAGCACAAGGCGAAAGAGGGCCACCTGCCCGAG
AAGGACGGGCACGGCCACGAGGGGCGCGCGCGGGCGAAGAGGCCAAGCAGCTGGCCCCGGGTGCCGTCTCCCTAC
GTGCGGACCCCGGTGGTGGAGAGTGCCAGGCCAACAGCACCTCGAGCCGGGAGGCCGAGCCGCGCAAGGGTGAG
CCGGCTACGAGAACCCCAAGAAGAGCTCCGAGGTCAAGGTGAAGGAGGAGCGGAAGGAAGACCATGACCTGCCT
CCAGAGGCCCGCAGACCCACCGGGCTCGGAGCCGCGCCTCCCAACTCCTCGTCCAGCGTGCACCCGGGGCCC
CTGGCTCGATGCCATGACGTTGGGGGTGACGGGCATTACCCCATGAACAGCATCAGCAGCTGGACAGGACT
CGCATGATGACCCCTTATGGGCATCAGCCCCCTCCCGGGCGGAGAGCGCTTCCCGTACCCTTCTTCCACTGG
GACCCCATCCGGGACCCCTTGAGGGATCCTTACCAGAACTTGACATTACCCGGAGAGACCCGCTGGGCAGGGAC

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FIGURE 999B

TTCTGCTAAGGAACGACCCGCTCCACCGGCTCTCGACTCCCCGGCTGTACGAAGCCGACCGCTCCTTCAGGGAC
CGGGAGCCTCAGCACTACAGCCACCACCACCACCACCACCACCACCACCCTGTCTGTGGACCCTCGGCGGGAGCAC
GAGCGGGGAGGCCACCTGGACGAGCGGGAGCGCTTGACATGCTCAGAGAAGACTACGAGCACACGCGGCTCCAC
TCCGTGCACCCCGCCTCCCTCGACGGACACCTCCCCACCCAGCCTCATCACCCCGGACTCCCCAGCATGCAC
TATCCCCGCATCAGCCCCACCGCGGGCAACCAGAACGGACTCCTCAACAAGACCCCTCCGACAGCAGCGCTGAGC
GCACCTCCCCCGCTCATCTCCACGCTGGGGGGCGCCCGGTCTCTCCAGAAGGACGACTCCTCTGTCCGCAGAG
ATAAGGGAGAGGCCCCCTTCCCACACGCTGAAGGATATCGAGGCCCGATTAAGCCGAGAACAGGAGCAAGAACGAG
GAAGAAGAAACCTTAGGCAGACACCAGGCCAGGCTTGAGAGACAGAATCCTGCATGGCTCACACAGACTGGGGG
GGAAAGCCCCACCCCTTCCCCTTGTAATAATGTATAGACTCAGTGCACATTTTGAAATGTTTTGTATATTATAT
GTTGAGATTTTTCAGATCTTTTAGCCAGTCATATGTTCTCACGCTCTCTACTTTTTGTTTCTCGTATAAACTT
TTTGATTGAACCAAAACAGTGAAGATGACAACACACCAATTGGATGATAATTGTAGCGGGGGCGGTGGGGGG
GAGAAGTCCACGCCATCCATCATGCAAAATCTTTCAGATGAGGTGGGAAGGCCGTGTACATAGTTATGTAAAAA
GAGATTGCTTCATGAGCTAATGGTTCATATATGCAAAAGGGTAAGATGAAAGCTTTACTTTGTACAAATGTAAAT
AGATAAAGTAACATAATACATTAATACTTCTTAAATGTGCTATTTGCAAACTTACTTAATATCAGTGAACACAG
TCGGCTAAAGCTGTGTTCCCATATATTGTTATAGACAGCTAAACCCTTCAACTATGCAATGAATGTTCGGGCTTT
TCACAAAAGCCCGCTAACTCAAAGGAGCCTTTTCAAATCCATTTACAGCATACTTAAGGTCATATTTCCCTGA
ACAAGCGCTTACGTGATATGACTCTGTTTTCTTGCTTGTTTTTTTTTCAAACGGAGAAACATCCTGTTTTGCAA
TTGGACCCAGGCTGGAACCTTAGCATCTGAAGTTGCCGCTTGTTGGCTCTGGGGGAAAGTGTAGCCCGGAGAGG
TAACTGAGGACATGAGCAACCAGTGCCAGGGAGGGTGGGATTGCCAGATGCCAAAATCAGGGGACGGGTGGTGG
TGTCTGTGAGACACACACAGGTCGCCAGTGACTTCACACACACCTCATGTGAGAACCATGCCTTTTTTAGTGTGT
CCTATTTTCATACCTGTACACACTTCCTCGTTTTGTAAATGAGATTACTTACACCCAAACAGATCCTGAAAGAAAG
CTTCAAGTTTTCTCAGATGATGGATATGTTTTCACTGTATTCAATAACTGACGGATGTAAGGTGCACGTTTCCTG
ATGTGACGCACTGTATTCCAGCTGGTGATCAAGTCTGGGAACAGCCGTAACAGGTCAACCTTGTGGAGCCATCGC
GAGTTAGAGGGTGAAAGATGGCAGAAAAAAAGTCTTGTTGTGTGAGTGTGTTTTTTGAGTTTGCATCAATCTTAA
TGTCTCTTCATAATACTTTTTATAATACATTAAGCCTCTTGCTACATATTTGGAGAGAATATGACTTTACTAGCA
GAGAAATACAATATATCTTGCTACTGGACTGTAAAATATATGTATGAAATAAAATTAGTTCCATTTGGTCTTCT
AGTATATTAAAGTGCTATCTGACGTTGTTATCCTGTTTTTGCAAAAAAAAAAAAAAAAAAAGTTAACTACAGAC
CATTGTTTCTAATAAGCAGAGAGATCTATTTTAGTAGTAACTGAAGGTTTAGTTGTGAGCTTCAGATTTTGTGA
ACTCCAGATGTTGTGCGGTGTTTTTTTTTTTTTAAAGACAACAATAAAAAATGCAAGGAATATGTACACTGG
AACTGTAGTGGTAGCTTTCAGTATTGTAAAGAGATTGTTCTATACGGACCTTTTGTGCTGTTTATCCTGTATGTAA
TAAAGTCCTTTCTAGATCCTATGTGAAAGAAAAGTGAAGCAACTGAATCTTCAGCATGTTCTCATCGGCGGAGC
CTTCTTGTTAATGTAACTGTGCCATGTTATTAATAAATGTGAACT

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FIGURE 1000

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FIGURE 1001

GGCACGAGGGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACATCGTGTCATGGCGTCCAGGAA
GACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTGCGAAGTGGAACTGATGTGGTGTCCAACACT
AGTGGGTCCGCCAGGGTCAAGCTGGGTACACAGACATCTTGGTGGGAGTGAAAGCAGAAATGGGGACGCCGAAG
CTGGAGAAACCAAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTTTCAGCCAGTGCTACCCCTGAATTTGAAGGT
AGAGGAGGTGATGACCTTGGCACCAGATCGCTAACACCCTCTATCGGATATTTAACAATAAAAGCAGTGTGCGAC
TTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTTCTCTATGTGGATGTGCTGCTTCTGGAATGTGGT
GGAAATTTGTTTGATGCCATTTCATTGCTGTAAAGGCTGCTCTTCAATACAAGGATACCAAGGGTTCGAGTT
TTGGAGGATGAAGAGGGGTCGAAGGACATTGAATTGTCAGATGACCCCTATGACTGCATACGACTAAGTGTGGAG
AATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGCTACTCTTCAGGAGGAGGCC
TGCTCGCTGGCCAGCTTGCTGGTGTGCGGTGACCAGCAAGGGAGTTGTGACGTGCATGAGGAAAGTGGGGAAGGGC
AGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAAGGTACTGCATGCCTCCTTG
CAGAGTGTTCTGCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTTGGGATGATTGACACAT
CAACTGCTCAACTGTGGATTGTTTTTACTTTTCCTTTTAAACCGGTTTCGTATATATTTTTCTTCGCTGTTACGA
ATTTACAGCAGCATTGTACATGTAAAATTAAAGGCTATTTTCTGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1002

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVGVKAEMGTPKLEKPN
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD
AISIAVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS
LLVSVTSKGVVTCMRKVKGSLDPESIFEMMETGKRVGKVLHASLQSVLHKEESLGPKRQKVGFGLG

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FIGURE 1003A

AGGGCGTGGTCAGCGCGGCCGAAGGGCGTGGTTGGCGCTCGGTCCTGCCCTGCGCGTTTTGGGCTGCGGTTGGAG
GGCCGCAGTTGCAGTCAGGGTCCGCCAGCTCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAA
GCGTTTCGCGGTGCGGTAGGAAGCTGAAGTCTTCAGCAGAACCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGG
TGAAGAAAAGGCAGAAGCGGAAGCATCTGAAGACACAAAGGCCAGTCCTATGGGAGAGGGAGCTGCAGGGAGCG
GGAGCTGGACATCCAGGGCCCATGAGTGGGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCC
TGTATGGGGGGCAGAAGGGATACCTGCCCTACTTGTCTGGATTGGGACTGACCCTGGCGGGCCCTCTAGAGCCCA
CCAGCCACAGGCCAGTGATGCCAACAGAGAGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCC
TGCCACCATGGGGTCTGGAGACCTTCTGCTCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTCTCCGA
GGAGTTCCCTCAGACTCTGAGCCTTCCAGAACAACTATTGCTCAGGACATGATGCTGATACCGAAGATGA
TCCATCCCTAGCAGATTGCCCCAGGCACTGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTTGCCTGTC
ACAGTGGAAAGTCCGTGCTGAGCCAGGTTCCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCTCCACAGG
CAGCAGTCTCCAGGGTCAACAGGAGAGGGCGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCTCTCCCTGGA
GCCGGTCGTCCCCAGGAACCTTCTCTGTGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTT
CTCTGGGGGTGATGCTTCTGGGCTAGGCAGGAGACGCCCTCTCTTCCAGGCTGAGTACTGGGCTGTGTGCTGCC
AGATTCCTTGCTCCATCACCCGACCGCCACTCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTGA
CTATACTTACCCACTGAGGCCCGGCCCTCAGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCTGTCTT
GCAGGACTCCGGGGTAGACCTGGATAGCTTCTCTGTCTCTCCAGCAAGCACCTCAAATCACTACTAATGTCTC
CCCCAAGTGGCCACCAGCAGAGGCCACTGCCCTGCCATTTTCTGGGCCCAGAGAGCCAGCCTTAAGCAGTGGCC
CTCCAGAGTACCCAGAAACAGGGTGGCATGGGCTTGGCATCTTGAGCCAACTTGCATCTACCCCCAGAGCCCC
AGGCAGTAGGGATGCTCGTTGGGAGCGCAGAGAGCCAGCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAA
GCACCTTGATATGGGCTCTCCCCAGCTAAGGACACGGGACAGAGGGTGGCCCTCGCCAGGCCAGAGAGGGAGAA
GAGGACCAGCCAGAGTGGCCGGCGCCCTACCTGCACAGAGTCTAGGTGGAATCAGAAGAGGAAGTGGAAAGTGA
TGACGAGTATCTTGCCCTCCCGCTCGGCTGACAAGGTTCTAGCCTGGTTTCGTATCTAGGATCCATTTCTAC
CTTGGTTACCCTGCCCACTGGGGATATCAAAGGGCAGAGCCCTTGGAAAGTGTGAGACAGTATGGGCCAGCTTC
CTTCCCTTCAAGCTCCAGCCAAAGCCAGCTTCCCCCTGGAGCTGCCCTCCAGGATCTGGGGATCCTGAGGGCCA
GAATCCCTGTTTCTGCGCTCCTTCGTCCGTGCCACGACTCCGCAGGGGAAGGCAGTCTGGGGAGCAGCCAGGC
CCTCGGGGTCTCTCTGGACTGCTGAAAACAGCCCCCTCTTGCCAGCTAGGTTGGACCGGTGGCCATTCTCAGA
CCCAGATGTTGAAGGGCAGCTTCCCAGGAAAGGAGGAGAACAGGGAAAAGAAATCACTGGTGCAATGTGTGAAGAC
ATTTTGTCTGTCAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCACGGGACTGCAGC
CAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAGATGAACATCA
GTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCAGTGCCTGTTGGAGAACACCCAGTTTTAGA
GGATGTCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATGACTCTATCTT
GGCCTCTCTGGACATGCTGGCTGGCTGCACCTTATCCCTGACAAAAGCCCATGGCGGCAATGGAGCACCCATG
TGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGTGAGAAAAAT
CCTTCAAGAAGTCCCTTGAAGAGCCATTCAACACTGAAGTCAAGGGGGAAACCTTCAATATACTAGCTTTAAAT
GCCCTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTATTACAATGAATCCTTCCAACTAAGGTTTTCC
TTTTGGTGCTTCTCCACAAAGAGCGTGTAGCTTTGCAATTTTGTATAAAATAAGACGTGTGCCTTCCCCTCTAT
CCCATTAAAAAAGAGCAGATAAAGCTCAAACCTATCCACCTGGTAGGGTCATTTACCAAGGGCTGGTAGGAGATT
CCGAATACTCAATATTCTCAGGCATGCAAGAGGACCTAAGAGACTGAAAAAGTGAATTGTTGGCCAGAAACCTT
GGGTCTTTTCAAAAGGAAATTTGGGCTTGTCAATCCCTCTTTAAAGATATAGGTAGAAAGAAGAGATTTTTAAC
CCTTGTCTGCAAAAGAAAAAGGGTTAAATGAAGCATCTATACAGATGACTTTGGGAGATTATGACACCTTTTGC
CATCTTACAGGGCTTACGTCTTTACTTTCTTGGCTAACAGTTTCTTAGAAGAAAATGTGTGAGGACTTTGGGGAT
CTACAGTCATGCTTTAGCATGGCTATGGAGCTAATTATCAAGCTTAAAGGGTAACTTTGGGAGGACTCCTCCCTT
CACTCCTAGTCTCCCTTGAAGAGCAGTCCAGGCTCAGGGAAGGGAATGGATAGGATGACACAGTAAGTACAGAA
ACTGAAGCTGTCAATAGTGAAGGAAAAAGGGGAATCTTCGTTGCTTTGGCATTGACACATAAGTACTTTGATTA
AAAAAAGAAATATGGATCAACCATTCAAAGCATCAATTCTATAGCTTTTTGCAGCAAGATGATCAGTTATT
GCTGGTAACTGCAGATTCTACAGAAAAGCACTTTTAAAGTTCTGTGGGCCATGAATGAACCTGGAAGGAGGAAA
GCACAGTAACAATGGAACTAAAGTCTATTATTAATGTGACTTTCTGCTTCAGAATTTCTGAGACTTTATAGT

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FIGURE 1003B

CACTGGAAAATAGCCATTAAATTCTTTAAAGATTAGCTCTTCAACAGTAGCTACACATAAAATGCAGTATTTCAA
GTGCCTGATGCTGCTGTGGTATGCTTTATCATAATGCTTAAGGGCATGATCAAAATTAAAATGGCTTATGAGTTT
GCCATATTAATCATCTTAGTTCATACACACTGAGACTTTAAAAGGGAAAAACCACTCTAGCAAATAATTGTCAA
TTATAAACCTGTATGTAAAACATTCTTGAAAACCTAGAGTTGGTTAAAAAGGTAGAGATGTCTGACGGCCTCTTC
TTAAATTGATATATTTTACCTTCTCTTAGATGTATATTTATAAGTAGGAACATGTCTTCCACTGAGTATGTTAC
TGAATAGCCCTTAGGAAATTAAACCCATTTATTTACTAATATTTGACAGGCATAGAAGTGTATTAATTAGCATAA
AAGTTGGAGATGAAAACCTATAGAAACAAATTGGCCAATATTATACTAATTGAATGCAGAATGTGGCATTCTAT
TCCCATTCACTAATAATCAGCTTCAACTGACAGGAATTTGCACAGAATGTTACACAATACCCTGTTTCCCAAGA
AAGTACTACCTTACCTAGAGATGATCTAAGATATTTTGTTCATCCTCTGAATAAGGTGAGACTAAAGGGTGCTA
ACTCCCTGGACCTGGCTGTGAATGCTACTGAAGAGTATCAACACAACCTGTTAATTATACCGCCGTGCTTTAAGTT
TAAGACTTACCTTAAAACCTCAAGCTGAAGGCTGGGCACGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGC
CGAGGCGGGTGGATCACAAGGTGAGGAGATCGAGACCATCTGGCTAACACGGTGAAACCCCATCTCTACTAAAA
ATACAAAAAGAAATTAGCCAGGCGTGGTGATGGGCGCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCATGAGAA
TGGCATGAACCCGGGAGGCGGAGCTTGCACTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCAACAGAGTG
AGACTCTTGTCTCAAAAAAAAAAATCAAGCTGAAATTGTTTCAGCCTAGTAAGATGCTGCCAGCAGCATTTCTA
TGAGCAAACATGGCCAAATTAGAGTCAAGTAGCTGAGCTTGCTAACTGCACTGTGATGCCACACTGGAATAACTT
AGTAGTCCCTTAAAATTAAATGGAAGTTAAATCCACAGGGAAGTGATGATACTCAAAGCTGGATCAGCAGTTTCAA
GATCTGGGTTCTTGGAGATCCATAGGTAAGCTCAGCAAAATGGAAGACGACGTCAACACAGGCTATTTTGAAGCT
TAGGTGGGAATGGAACACAAAGAAGGTTTGAGGTAAGATATGCTGGAAAGGCAAGATGTAGGCTAAGGGAAATTC
AATCCAAGGTCGAAGAATAGGAAATTACTGCTCAGACCACAATGACTATCATTCTGAAAGGATTTTACAGAGTGT
GCAGCTGCTTAGATTTAAGAACACTCTTCTTCACTATGTAACTAATTTATGGCAGCACCTTATATTTAGAACAA
GTGGTAATTCCCTTTACTAAGTGAACAGATTATTAACCTGTAGTAGCTTGAACCGTTTGTACTTGAAAAATGG
GGGTATAAAGGGGTATATATTTTTTCCAGAACCACATTTATTTGGCGTATACATAGAAGCAAATCTTAAGGCATGC
TGAAATTTGTTGTAAATCCAATCTTTACTGCCATGGGGAAAAGAACGCTGGAATTTTCCAACTTAAGTCTGTA
AATATGCTCATCTTAAGTTCATGTAATGTTTCCGCTAACTCACCAAGAATAAGCTGACAATTTAAACAACTTT
CTGTGTAAAAATGAAGTGCACGGCATGGCATCACAGTATCTTGACATTTGTTTTGTGTCTTTAGCTACTTTAGA
AAATAGTTTCTGAACCTCTTCCCCCTTTTACTGTATTAAAGGCAAAAACAAAACCTTCTGAAGCATTAAAGATCTT
CACCAAAATAACTATTGGTAACTTCAGGAATTTGTCACTTGCCCTTATGTGAGGATGAATAGATCCACCAAGCAGC
CCTATAATACAAAGTAACTATGATTTTTTATTGTGAAATTTTCATAGATGGAAAATTGAATATCTGTCCATTT
ATTTTACAATTATCTTACCCTTATTTTGTACCATGTATTTCATTTGCCTGTTAGTGAAAAATAAAAATTAAA
AAAACCT

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FIGURE 1004A

CGCCGGCGGGCCGTGTGTGAGGAGCAGTAGAGAACTGTGGACTATTCTGCTTGGAAAGGTCAGCTCTGAGAGAGCT
GAGTCAGATTGAGGCAGAACTGAATAAACATTGGCGGCGATTGTTAGAGGGGCTTTCTTACTACAAACCTCCAG
TCCAAGTTCAGCTGAAAAAGTGAAAGCTAATAAAGATGTAGCTTCACCATTGAAGGAAGTGGGTTTAAAGAAATCAG
CAAGTTTTTGGGTCTTGATGAAGAACAGAGTGTGCAGTTACTCCAGTGTTACCTGCAAGAGGACTACAGGGGTAC
TCGGGACTCAGTAAAGACAGTACTGCAAGATGAGAGGCAGAGCCAGGCCCTTAATCCTGAAGATTGCAGATTATTA
TTATGAAGAAAGAACCCTGTATTCTTCGTTGTGTCTTACACCTTCTCACTTACTTCCAAGATGAAAGACACCCCTA
TAGGGTTGAATATGCAGACTGTGTTGATAAATTGGAGAAGGAACTAGTTTCAAATAACAGACAGCAGTTCGAAGA
GCTTTATAAACTGAAGCACCAACTTGGGAGACACATGGAAATCTCATGACAGAGCGCCAAGTGCTCTCGTGGTT
TGTTCAAGTGCCTTCGGGAACAGTCCATGCTGCTAGAAATTATTTTCCTTTATTATGCATACTTTGAGATGGCACC
CAGTGACTTACTTGTATTAACCAAGATGTTTAAAGAGCAAGGATTTGGTAGTAGGCAGACCAATAGGCACCTGGT
GGATGAGACTATGGATCCTTTTGTAGATCGGATTGGCTACTTCAGTGCCCTCATCTGGTGGAGGGCATGGATAI
CGAGTCTTGCATAAGTGTGCTTTGGATGACAGAAGAGAAGTGCATCAGTTTGCAGGATGGGCTTATTTGTCA
GGATATGGACTGTTTAAATGTTGACCTTTGGGGACATTCCACATCATGCCCCAGTGCTTTTGGCCTGGGCTCTCCT
CCGTCACACTCTGAACCCAGAAGAGACAAGCAGTGTGGTCCGGAAGATAGGTGGCACAGCCATCCAGCTGAATGT
GTTTCAGTACTTGACCCGATTGCTCCAGTCCCTTGCCAGTGGGGGAAATGATTGCACCACCAGCACTGCATGCAT
GTGTGTCTATGGACTGCTCTCTTTCGTTCTGACCTCGTTGGAGCTGCACACCCTGGGCAATCAGCAGGATATAAT
TGATACAGCATGTGAAGTATTGGCCGACCTTCTCTTCCGGAAGTGTCTGGGGAACAGAGCCAACCTTCTGGCCT
TGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCACTCCTGCAACTGCTCCGAGCCCT
GGTATCAGGGAAGTCCACAGCCAAAAGGTGTATAGCTTCTTGGATAAGATGTCTTTCTACAATGAACCTTTATAA
ACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAACCTTTTGGCGGAGACAAACACCCAACTCCTTTATCC
CCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCAGTGTGGGCCAAGTAATGTTGGATGATAGGGCATACTT
GGTACGCTGGGAATACTCCTATAGCAGCTGGACCTCTTTACCTGCGAGATTGAAATGTTGCTTCATGTTGTTTC
AACTGCAGATGTGATTGAGCACTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTCATCAGTACAGA
CCTGTTCGATAGCAGACTGTCTCCTGCCCATCACATCTCGCATCTACATGCTGCTGCAGCGGTTAACGACAGTGAT
CTCCCCACCTGTGGATGTCTTGTGTTCACTGCTTAACTGTTTGGCTGCCCGCAATCCAGCAAAGGT
CTGGACTGATCTTCGTACACAGGTTTTTTTACCATTGTGGCCCATCCTGTCTCCAGCCTGAGTCAGATGATTAG
TGCGGAAGGGATGAATGCTGGAGGGTACGGAACCTCTTGATGAACAGTGAACAGCCTCAGGGCGAGTATGGGGT
TACTATTGCTTTCTGCGCTTGATCACCACCTTGTCAAGGGGCAACTTGGTAGTACCCAGAGCCAAGGACTTGT
ACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCAGCTACCATAAGTGGCGCTACAACCTCATGGAGTGAG
GGAACAGATTGGTTGCCTGATCTTGGAGCTGATTGATGCGATACTGAACCTGTGCCACGAGACAGACCTGCACAG
CAGTCATACTCCAGCCTGCAGTTTCTCTGCTATGTCAGCCTGGCATAACAGAAAGCAGGACAGACAGTTATCAA
TATCATGGGCATTGGCGTGGACACCATGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGGGCAGAGGGCCA
GGGGCAGGGCCAGCTGCTGATCAAGACAGTGAACCTGGCATTCTCCGTACCAACAATGTTATTGGCTGAAACC
TCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTCACAACATGGTGCTCATGGAAACAACCTCATTGCTGT
TCTAGCCAAATACATCTACCACAAACATGACCTGCTTTGCCACGTCTTGCCATTGAGCTGCTGAAACGTCTGGC
CACGGTGGCCCCAATGTGAGTGTGCTTGTCTGGGCAATGATGCGGCTGCCATTGCTGATGCCTTCCTGACCCG
ATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCTCACTGTTGAGTAGAGACCCA
GCCAGGCCTCATCGAACTGTTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAATCAGCCTTGG
GATGTGGAGCTGTCTCCATGCAGTGTGAGCTGATTGATTCCCAACAGCAAGATCGATACTGGTGCCACCCCT
GCTGCATGCTGCCGCCATTGCCTTTTGCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATGCTGGTCTCTCCG
AACCAAACCAAGTTTTGGGAAAATTTAACAGTCCGCTGTTTGGAAACCTTTCTCCTCCCTGAAACATCAGA
GCCAGCATCCTGGAAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTAGTAAAGGGTTC
ATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTCCATCGAGAAACGCTTTGCCTACTGGTCAGGGTATGT
CAAGTCATTGGCAGTTCACGTGGCCGAAACAGAAGGCAGCAGTGCACCTCCTTGTAGAGTACCAGATGCTGGT
GTCCGCTGGAGGATGCTTCTCATCATTGCCACCACTCATGCAGATATAATGCACCTGACTGACTCTGTGGTGGC
TCGCCAGCTCTTTCTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTGAAGTGCCTTCG
CCTTGGCTCCATGAAGTGCATCTGCTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGTTCTGTGGATGA
AATCCTTGGACCTTGACGGAGATCCTGGAGGGAGTGTGTCAGGCCGACCAGCAACTCATGGAGAAGACCAAGGC

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FIGURE 1004B

CAAGGTGTTCTCAGCATTTCATCACAGTGTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCCAGTACTCCCA
GCTGGTGCTGAATGTCTGTGAGACCCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGCCACAGTCTGGC
ATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCGGCACAGGGACCAGCG
TGATGGGGTGTGTCTCTGGGCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGTGACTCCTGGCT
GCAGGTAACCCGCAGGCTCCCCATCCTACCCACCCTCCTCACCCTCTAGAGGTGAGCCTTCGCATGAAGCAGAA
CCTGCATTTCAGTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCCACAGCAGTGGC
TGGAGCTGGCATCACCCAGAGCATTGTTTGGCCCTTCTGAGTGTGTACCAGCTGAGCACCAACGGGCACAGCACA
GACACCTAGTGCTCTCGGAAGTCCCTGGATGCCCCCTCTGGCCAGGAGTCTACCGCCTGTCCATGTCCCTGAT
GGAGCAGCTGCTCAAACTCTGCGCTACAACTTCTGCTGAGGCCCCTGGACTTCGTGGGTGTCCACCAGGAGCG
GACCTTACAGTGCTCAACGCAGTGAGGACAGTGCAGAGTCTGGCCTGCCTGGAGGAGGCGGACCACACCGTGGG
TTTTATTCTGCAGCTCTCTAACTTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGTGATATCCAGGT
CAACCTGGGTACTTGTGCCAGGCATGTACCTCTCTCTGCACAGTCAAAGATGCTGCAGCATTACTTACAGAA
CAAAAATGGGGATGGCCTCCCTCAGCTGTTGCCAGCGAGTCCAGAGGCCACCGTCTGCTGCTTCTGCTGCCCC
CTCCTCCTCAAAGCAGCCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCCCTGCACACAGTCCAGTATGGCCT
TCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTACCCAGATGTCTGCCAGATTCTGCTGGATCA
GTCCCTGGACCTTGCTGAATACAACCTTCTGTTTGCCTGAGCTTTACCACTCCACCTTTGACTCCGAAGTGGC
CCCCCTCTTCGGGACCCTTCTGGCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGACAAGAAAAAGGA
GCCCCCACCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTCCTGATGTTTAC
CATGGAAACTGCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTGCACCCCCGGGA
CAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGCTACTTCCGCCG
GGGAGCCCCAGCTCCCTGCCACTGGTGTCTCCCTCGCCGAGGGCAAGTCCACCTCTCTCTCCAAAGCCAG
CCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAGGGCAGTGCTGT
TCTGCCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCTGCTAGGGCCTA
TACAAATGGAGGGCACCTCCTGTACCCCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCACTGACGTTATTT
TTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCTCTACGCTGCAGACG
CCCCCTAGAGGAACCTTTCCTTCTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGCGGCAGCCCAGC
AGAGGGCTCTATGCACGGGTTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTTGGTAATTCTGTGGTCTAT
TTATACAGATATTAAATCTTGTATAGAC

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FIGURE 1005A

GGCCGAGTCGTGGCGGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAGGAGGCGCTGCGGCGCGG
CCAGGAGAGCAGACTCCAGGCGGAGGAAGAGACGCGGCTGTGCGCGCAGGAGGCAGAGGCGCTGCGGCGCGAGGC
GCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCGGATGCGCGAGGAGTACGGGATACAGGC
CGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAGGCAACCCCTACCTTGGCCATGGCTGACTGGCT
GCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCCCTCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGA
AGGAGAAAGTAATCCAGAGATAGTGATCTGGGCTGAGCACGTTGAAAACATGCCGTGAGAAATCAGAAACAAATC
CTATCACTATAACGACTCACTACTACAGAGGGAATGAATGGAATCTATTTTCAAGGCAGAAAGCACCTTTGGC
AAGTTTCAATCAGACTCGGCACTGTATTCTAACCTGTCAGGGCACCGTGGATCTCAGACGGGCACATCTATTGG
AGGTGATGCCAGAAGAGGCTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACCTACATACGG
AAAAGCCGTCAGCAGTCAAACCAACGTCAGAATTTCTCTCCAACCTATGGCCTTTTAAGAAATACTGAGGCTCA
AGTGAACACATTCCCTGACAGACCAAAGCCGGAGATACAAGGGAGGTCCCCGTTTACATAAGTGAAGATTCCAC
AATTGCCCCGAGTCGTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGGAAGCACACGGTCAAATGA
GAGGACCGTCATTCTGGGAAAGAAAACAGAAAGTGAAGGCCACGAGGGAGCAAGAAAGAAACAGACCAGAAACCAT
CCGAACAAAGCCAGAAGAGAAAATGTTTCGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAACCTAAGATGGGAAGA
ATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAGCCAGCAGATGAAGGAGAAGGCTAAGGAGAAGGACTC
ACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTATCCCAGGACAGAAGAGCAGAGGT
GTCCCCGAAAGGTTTGACAGCGCTGTGAAGGATGCTGGTGGTGGGACCGGTAGAGAGGCAGAAGCAAGAGAGCT
ACGGTTTCAGGTTGGGCACCACTGATGCCACTGGTTCTCTGCAAGGCGATTCCATGACAGAAACCGTAGCAGAAAA
CATCGTTACCAGTATCCTGAAGCAGTTCAGTCTCAGAGACAGAAGCATCTGCTGATTCTTTTCAGACAC
AAAAGTCACTTACGTGGACAGGAAAGAGCTTCTGGGGAAGGAAAACAAAGACTGAAATAGTTGTGGAGTCTAA
ACTGACTGAGGATGTTGATGTTCCGATGAAGCTGGCCTGGACTACCTTTTAAGCAAGGATATTAAGGAAGTGGG
GCTGAAAGGCAAGTCAGCCGAGCAGATGATAGGAGACATCATCAACCTCGGCCTGAAAGGGAGGGAGGGGAGAGC
AAAGGTGCTCAACGTGGAGATCGTGGAGGAGCCCGTGAGTTATGTCAGCGGGGAGAAGCCGGAGGAGTTTCCGT
CCCATTCAAAGTGGAGGAGGTGAAGATGTGTCGCCAGGCCCTGGGGGTTGGTTAAGGAGGAGGAAGGTTATGG
AGAAAGCGATGTCACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGA
AGAAGTGACAGAGGCGAGGTGATTGAGAGGGCGAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGGG
GCACGACAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACTCTTGGCA
GGATGAAATCGTGCAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAGGTTGTGAAGCCCTT
GGATGTCCCAGCGCCCTCTCTGGAGGGGGACCTGGGTTCCACTCACTGGAAGAAACAAGCTAGAAGCGGTGAATT
TCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAATACCCACGAATTCACACCTCCATGAAGGGCATCTC
CTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTGATCGGGCAGCTGGAGGAAACCCCTTCCCGAGCGCATGAGGGA
GGAGCTGTCCGCCCTCACCAGAGAGGGGCGAGGTGGGCGGGGAGCGTTTCCGTGGATGTCAAGAAGGTCCAGGG
TGCTGGTGGCAGTTCCGTGACCCCTGGTTGCTGAAGTCAACGCTCACAACCTGTGGATGCCGATCGGTTAGACCT
GGAGGAGCTGAGCAAAGATGAGGCCAGTGAGATGGAGAAGGCTGTGGAGTCCGTGGTTCCGGGAGAGCCTGAGCAG
GCAACGCAGCCAGCGCTGGCAGCCAGATGAGGAAGGTGGAGCGGAGGCCCGGCTGCTGGCATTTCGCTTCAG
GCGTTGGGCCACCCGGGAGCTGTACATCCCTTCAGGCGAGAGCGAGGTTGCTGGTGGGGCCTCTCACAGCTCGGG
ACAGCGCACTCCCCAGGGCCAGTGTGGCCACTGTGGAGGTGAGCAGCCCCACAGGCTTTGCCAGTCAACAGGT
GCTGGAGGATGTGAGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTC
ATATGAAGGACCCACTGCAGAAGTGGTGGAGGTAAGTGCAGGAGGTGACCTAAGTCAGGCAGCGAGCCCCGACGG
AGCCAGCCGCTCTGTGAGGCATGTCAGCTGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTTCTTAGG
CCCTGCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCAGCAGAGTCTTCTGCAGATATGGACGG
ATCAGGGAGGCACAGCACATTTGGCTGCAGACAATTCATGCTGAAAAGGAGATTATTTTTCAGGGCCCCATTTT
TGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAGTGGGTACCCAGACTTCTGTGAGCAACTCCA
GTTAGGCCCTAAAGAAGGGTTTCAAGTGGGCAATCCAGTTCACAGCTCCACTTTTTCAGACAAGGTGGAGTTGGGTGT
CATAGGAGATTCTGTACACATGGAAGGGTTGCCAGGGAGCAGCACATCCATCAGGCACATCAGCATTGGGCCTCA
GAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTTCCCAACTGGGGGAATCTGGTGAATCAGAGAG
CACTGTGCACGGAGAGGGCTCAGCAGATGTGCACAGGCCACTCAGATCATACCTCGGGTAGACAAACCGTTAT
GACTGAAAAGAGCACCTTCCAAAGTGTGTTTCTGAATCTCCCAGGAGGATAGTGCAGGGGACACATCAGGGG

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FIGURE 1005B

AGAAATGACATCGGGTGTAGCAGATCCTTTAGGCACATTTCGACTAGGTCCTACAGAAACGGAAACCTCTGAACA
CATTGCCATCCGTGGACCCGTGTCCAGAACATTTGTGCTTGCTGGTTACGCGGACTCCCCTGAGCTAGGCAAGTT
AGCAGACAGCAGCAGAACGCTAAGGCACATTGCACCAGGGCCCCAAAGAACTTCGTTTACCTTTTACAGATGGATGT
GAGTAACGTAGAGGCGATCCGCAGCCGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCTCGGAG
AGACCGCGACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTTAAGGCCTCTGCTGGGGAGGAGACCAGGCCCA
CAGAGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGTCCGT
GATTTTACAGATGAAAAGAAAGTTGCCCTCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATTGGTTTTA
ATAAGCAGAAACATTTTGTTTAATGGCAGCCTGTTGGCGACGTGCCAACATCCAAAGGCCCTTAACCTATTTTAA
GAGGCCGAGGGAGTCTATGAAATCTCCCTTTTTTACTTTTTTAAAGAGTACTCCCGGCATGGTCAATTTCCCTT
TATAGTTAATCCGTAAAGGTTTCCAGTTAATTCATGCCTTAAAAGGCAGTCAATTTTTATTTTGGAGTTGGGACT
TTTACAAAACACTTTTTTCCCTGGAGTCTTCTCTCCACTTCTGGAGATGAATTTCTATGTTTTGCACCTGGTCAC
AGACATGGCTTGCATCTGTTTGAACTACAATTAATTATAGATGTCAAAACATTAACCAGATTAAAGTAATATAT
TTAAGAGTAAATTTTGCTTGCATGTGCTAATATGAAATAACAGACTAACATTTTAGGGGAAAAATAAATACAATT
TAGACTCTAAAAAGTCTTTTCAAAAAGAAATGGGAAATAGGCAGACTGTTTATGTTAAAAAATCTTGCTAAAT
GATTTTCTTTTAGGAAAAAATTACTTGCCATATAGAGCTAAATTCATCTTAAGACTTGAATGAATTGCTTTCTA
TGTACAGAACTTTAAACAATATAGTATTTATGGCGAGGACAGCTGTAGTCTGTTGTGATATTTACATTCTATTT
GCACAGGTTCCCTGGCACTGGTAGGGTAGATGATTATTGGGAATCGCTTACAGTACCATTTTCTATTTTGGCACT
AGGTCAATTAAGTAGCACACAGTCTGAATGCCCTTTTCTGGAGTGGCCAGTTCTATCAGACTGTGCAGACTTGCG
CTTCTCTGCACCTTATCCCTTAGCACCCAAACATTTAATTTCACTGGTGGGAGGTAGACCTTGAAGACAATGAAG
AGAATGCCGATACTCAGACTGCAGCTGGACCGGAAGCTGGCTGTGTACAGGAAAATTGGAAGCACACAGTGGAC
TGTGCTCTTAAAGATGCCTTTCCCAACCCTCCATTCTAGGGATGCAGGTCTTCTGAGCTCAAGGGTGAAGAT
GAATACAATAACAACCATGAACCCACCTCACGGAAGCTTTTTTGCACCTTTGAACAGAAGTCATTGCAGTTGGGG
TGTTTTGTCCAGGGAAACAGTTTATTAATAGAAGGATGTTTTGGGGAAGGAACTGGATATCTCTCTGCAGCCC
AGCACCGAGATACCCAGGACGGGCTGGGGGCGAGAAAGGCCCCATGCTCATGGGCCGCGAGTGTGGACCTG
TAGATAGGCACCACCGAGTTTAAATACTGGGATGAGCATGCTTCATTGGATTCATTTTATTTTACACGTCACTA
TTGTTTTAAAGTTTCTGTCTGTAAAGTGTAGCATCATATATAAAAAGAGTTTCGCTAGCAGCGCATTTTTTTTAG
TTCAGGCTAGCTTCTTTCACATAATGCTGTCTCAGCTGTATTTCCAGTAACACAGCATCATCACACTGACTGTGG
CGCACTGGGGAATAACAGTCTGAGCTAGCACCCCTCAGCCAGGCTACAACGACAGCACTGGAGGGTCTTCCCT
CTCAGATTACCTGGAGGCCCTCAGACCCCAAGGTGCACGTCTCCCAGGTCTTGGGAGTGGCTACCGCAGGTA
GTTTCTGGAGAGCACGTTTTTCTTATTGATAAGTGGAGGAGAAATGCAGCACAGCTTTCAAGATACTATTTTAAA
AACACCATGAATCAGATAGGGAAAGAAAGTTGATTGGAATGGCAAGTTTAAACCTTTGTTGTCCATCTGCCAAAT
GAACTAGTGATTGTCAGACTGGTATGGAGGTGACTGCTTTGTAAGGTTTTGTCGTTTCTAATACAGACAGAGATG
TGCTGATTTTGTTTTAGCTGTAAAGGTAATGGTTTTTGGATAGATGATTGACTGGTGAGAATTTGGTCAAGGTG
ACAGCCTCCTGTCTGATGACAGGACAGACTGGTGGTGAGGAGTCTAAGTGGGCTCAGTTTGATGTCAGTGTCTGG
GCTCATGACTTGTAAATGGAAGCTGATGTGAACAGGTAATTAATATTATGACCCACTTCTATTTACTTTGGGAAA
TATCTTGGATCTTAATTATCATCTGCAAGTTTCAAGAAGTATTCTGCCAAAAGTATTTACAAGTATGGACTCATG
AGCTAATTGTTGGTGTCTAAATGTGAATCACGCGGGAGTGAGTGTGCCCTTCACACTGTGACATTGTGACATTGTG
ACAAGCTCCATGTCCTTTAAATCAGTCACTCTGCACACAAGAGAAATCAACTTCGTGGTTGGATGGGGCCGGAA
CACAAACAGTCTTTTTGTATTTATTGTTACTGAGACAAAACAGTACTCACTGAGTGTTTTTCAGTTTCTACTGG
TGTTTTGATATTGTTTGTAAAGATGTATTTAGAATGACATCATTAAGAAGCTGATTTTGTAAACTCCTG
TTCCCTACAATGGGAAATGTCACAAGAATGTGCAAAAATAAAAATCTGAGG

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FIGURE 1006A

TTTAAACTGTGCTTTCTAAGCACAGTCAGGTAGCAAAAGTAATAAAAAGGATGGTTGAACAAGTTTTCTTGATG
TTCCAGGATAAGTTTGGGACTTTTTCTTTGTTTATTATATAGATTGTTCCCTTTGAAATTAAAGCTATTTTGTAGG
TTTTGTGGGACATAATTTGATAAGTAGAGTTAATTAAATTTCTTCTGGAAGAGATCTAAATTTCTATTCTTAGTG
AGAGACTGTAGTTAAAGGAAGGCTTTTAGAAGTTGGGTTCAAGGAAGATGGAGATGCGTCGGAAGCTCTTTGGC
GGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCTTCTGGCATTAGGTCTTGTCGGTGATTTGGTGGTGCTT
GGGTCATAAGCCTGATTAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATTAATTTTTTATATGGGGA
CTGGAGCGCTGAAAAGTTGTTTCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCCAGGTTATGAAGACAGTAT
GGAGTTTCCAGACCATAGTAGACATTTGCTACAGTGTCTGAGCGAGCAGAGACACCAGGGTTTTCTTTGTGACTG
CACTGTTCTGGTGGGAGATGCCAGTTCCGAGCGCACCGAGCTGTACTGGCTTCATGCAGCATGTATTTCCACCT
CTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGTTACAGCCCCCGCTTTTCGC
TCTCTGCTTGAATTCATGTATGAAGGGAACTCCAGTTCAAAGACTTGCCCATGAAGACGTGCTAGCAGCTGC
CAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAAAGCCACCACGGAGGCAGA
CAGCACCAAAAGGAAGAAGATGCTTCAAGTTGTTCCGACAAAAGTCGAGAGTCTCTCCGATGGCAGCAGCCACAT
AGCAGGCGATTTGCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCTGCCAGCAAAAAGGACTT
GGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCCCAGGCTGGCGGAGAGGC
AGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCGTCAGCTCAACAGAGTCTTTGTCCAGAGGTC
TGTCACCTCCGTGAGGGATTCCGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAAGTCCAGCCTTTTCAGGAGT
TGAAAATCTGAACAGCTCTTATTTCTTTCACAGGACGTGCTGAGAAGCAACCTGGTGCAGGTGAAGGTGGAGAA
AGAGGCTTCTGTGATGAGAGTGTGTTGGCACTAATGACTATGACATGGAACATAGCACTGTGAAAGAAAGTGT
GAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGACTCGGTCTTGAGGGAGCT
GGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGTCCAGGTGGAGGGAGGCAT
GGAGAGCAGTCTGCTCCCCACGTCTCCAACATCCTGAGCCCCGCGGCCAGATCTTCATGTCCCCCTGTGCAA
CAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCACGCACCTTCCGCGAGCAGGACGGCATCCGCAG
CAAGCCCCGCCCGATGTCAACGTGCCACGTGCTCGCTGTGTGGGAAGACTTTCTCTTGCAATGTACACCTCAA
GCGCCACGAGAGGACTCACTCGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAAGAGCTTCCAGTACTCGCA
CAACCTGAGCCGCCATGCCGTGGTGCACACCCGCGAGAAGCCGCACGCCTGCAAGTGGTGCAGCGCAGGTTTAC
GCAGTCCGGGGACCTGTACAGACACATTTCGAAGTTCCACTGTGAGTTGGTGAACCTCTTGTCCGTCAAAGCGA
AGCACTGAGCTTGCCCTACTGTACAGAGACTGGACCTTAGAAGATAGCTCTCAAGAACTTTGGAAATAATTTATAT
ATATATAAATAATATATATATATATACATATATATAAATAGATCTCTATATAGTTGTGGTACGGTCTAAAAGCAG
TCTTGTTTCTGGAATAAAAAGTTGGGATATTAACCTTGTTTTTGCACTTTAGAAATAGCATGAGAATCTCACTAA
TTAGCATTCTGATAAAAAGAACTTTAGAGCAAGTCAGAATAGAGAGGTGTTTTCTTTGAGGGGATAGGGGAA
GTAAGCCAATAAGAACCTTTTAAACAAATCGTCTGTCAAAAATGCTTTTCATATGGCTTAATTTTGTCAACACT
GCATTGTCTTTTGTGCTCTTTTTTCCCCCCCCAACAAAGTTTTTTTGTTTTTTGTTTTTTTTTTAAAGTAGAAATT
CCCTCCAGTTTTATTAGCCTCTTTATATGTCTCAAATTCATGAATTTTTTCTGGCTGTTGGAAACCTGAATGCT
TTTAGACCCAAATGGAAAATTTCTGAAATGCTGGATTATCTATTTTAAACAAGCAGTTGACTTAAACTTTCTG
TGGCAACTTCTGTTTTCTGACAGTTCCAGTGAGAGAAATGCTGAAAGTACACTGGGATCACTGGGACACTGTC
TTATGAAGGTTTGTGGGATGAAAAGGATATTGCAGCTTCAGCAGTGTGAACTGTGTGTTTAAAAATGTGAA
TTACTGTTATTGTATACTGTAATTGATTACATGGGCTGGGGGGGTGTCAAAGAACTTGACAGGTTGTGTTGATGC
TCTTAGTTGAGTCTTGAAAAGTAATATTAACGCTACAGAAATGCATGAGTTTTCAATATATTTTTTGTCTTTGT
TTGCATTGTATAACTTTAACGAGTGAGTTTAAATATTTTAAATTTCTTAGAAAAATAGCACCATTGGAAAAAA
AAACTGGTGTATGAAGAACGTAAATGCAGTGTTTTTATTTTTATTTATATAATTTAAATTGACTTTCCCACTG
TCTTTAAGTTGAACTGTAAAGCTGAATAAAAACCTAAGCTGCAAATTGATAACTTCGCTACATAACAAGGAAAA
TATAAATGTTTACAAACAGCTTAAAGATTGCATGTGCAGTGTGCATTTATAACAACTTCTAATTGCACAAAAC
CCATGCCAGCTCAGAGTTAGGTGTACACATTTACCAGTTGAGCGTCTTAGAATAACTACTGCACAAGTTGAC
AATAGGTCGTTCTCTCTTTTTTTTTTGTGCTCCCTTTTCTTTTTCTCCCTTCCCTTACCCTCCCTCCCTT
ACTCTCCCCCCCCACCACCACCTCCACCCCAACTCATGAAAAGATTCTATGGACTGAAAAAGCCCCAGGCTGA
AAGGACTGGACTGCCTTGATTGACATGGGGAAGGGGTTAGTAGACTATGTGGATTGCGGCAGCAGAGGCTGCAG
CCTAACGTGTGGTTTTAATGACCAGCACGCAAGGCAAAAGCATTTTGACAGTGTGTTTTCTGTCTGCACT

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FIGURE 1006B

TACAAATAAGGTCTATGGGAGTAGCATGGAAAACGTTTGCTGTTTTTCCCTTTTTTTTTTAATTGCTTTTGTTTA
AAATTTGATCGCCTTAACACTACTGTAAACATAGCCTATTTTTGTGCTTAAGATACTGAATGGAAAACCCATTGTG
TGTGCTGGACGTGTTTTGGAAATATTTGGTTAAATGTGTGTTAATTTGGCTGTAATGGCATTAAAGCAAACAAA
CAAACAAAAAAGCTGTGAAAATGGCCTTGGAGCATTATCTTTAGTTACTTGAAGAGTTTCTAGTTTTTTTAAAA
TACAGTTTATGTTAAAATAATTTTTATTAATTTAGAGAAGACAATCAATGTCTGTGAGAAAACGGACTTCTTTT
GGATTTTCTTTTTGTGGTCATTGTGAGTGATTGCTTTTTCCCTTTCTTAGTTTCACATTCTTCCTTTGTTCTAAA
ACTTAGACTGACATCTAGCTTTGACAATCATAGTATGTTTTATTTTCCCTGAGGGGAATAACTTATAATGCTGTT
TAGTTTTGTACTATTGGTGTGTTGGTGAATTTTTAACTGTGTGCTAACTGCAATAAATTATATGAAGTGAAGAA
AA

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FIGURE 1007

MEFPDHSRHLQCLSEQRHQGFLCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLEFMYEGKLQFKDLP IEDVLAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLP SDEDEGEDEKLNILPSKRDLAAEPGNMWMRLPSDSAGIPQAGGEAEPHATAAGKTVASPCSSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRNLVQVKVEKEASCDESDVGTNDYDMEHSTVKES
VSTNNRVQYEPAHLAPLREDSVLRELDREDKASDDEMMTPESERVQVEGGMESLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNLSVKSEALSLPTVRDWTLEDSSQELWK

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FIGURE 1008

GGCGTAAACCACTGCACGCAGCCTACCCTCTGCCTTTTTAAGATGATGTATTTATTTAATTTTGCCATCATTGG
TGCTTCACCTTCCTGCGAAGGAAATTCAGAGCCTGTATTTAAGCTACCTAGGCTTTTACACTCCCTTTATTGCC
TTTCCAAATAGTATCTCATTGGTGTACTCTAGTGICCTATACCTCTTGGAAACGAAAGAGGGCCCAACCTACAA
CTAAGAAGGGACAAACCTTGAACCTAAGTAAGACCTTACACACCCAGAAAGAACTGGGCCCTCCTTCTTCAGGG
ACAATGCAGTAGCCACTTGGCTTGTGGAATTTACTGAAGGCTATTTCTGTAACTTGCTAGTTAACTTAGTTTTG
TATTTAGGCAGAGGTGCGCTCTGTAATGTTGGGCCTTTGACTTCACAGTACTGGAGAGCTGTTACACAGATGT
TTAGACCTTTCTCTCTCTCTCTCTTTCTCTTTCTCAACAACCTTTTACAGAGGCAGTCATTTTGAAAGGTG
AAATATTTGGCCTTTACCAAAGAGCTTTTTTTTTCTTAAAGCAAATCCTTTCAGAAAGAAACAAATGGGGAAGG
GCAGATTAAAGAATGCATATGTCCCAATCCACTTCTATAGGAGTTTAAATCATATTCACATGAGTAAATGATGGAA
GAACTCTTTAAGGTAATCCTTTGGGATAAAGGATCCTGGGAAGTTCTCTCAGGTAAAGAAAGCTTACAGCAGATT
TGTAATATATGTCTGGAGAGCTATTTATAAGAAATTTAAGAGGATTGTTTGTCTTTTAAAGATTTAAG
CCTTTTTACTTTGCAAAAAGAAAACACAAAAGTTTTATAGATATAACTTTGCTAATTTTTTAACTTTTCTGAA
ACGATTAGCTGTAGCCAAATTATGTGGTTACGTTTTGCTACATTAGAATTTGAAAATGCAATATGTGTGGTAAAT
CTACTGTTTGAAATTTATAATGGTCTCTGATATGATTGCAATTTTGGTAACTTTTGAAAGTTATTTTCCCCCTT
AGTCATGGATTTCTATTTGTTTTTAAATGTTAATTTTTCTAGAAAGCATCTGAATTGACTAGGCTTTTCTATAT
AAAAAAGTCAAACTTGTTAACTCTGTACTTTAATAAAATTTAAATTTAAACTGTGTGTTTTTCTCTCTG
CTAGATACATATATAATTAAAGTACTCAAGTTAGTTGTTTTGCAGAGATGTTGCCTTCAGATGTTAATCAGGTCT
CTCAAGTTTCATGGAGTCTATGCTGATCCTTTAATTGACAAATAAAAGATATATATCTGTGGTGTGCAAC

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FIGURE 1009

GVNHCTQFTLCLFKMMYLFNFCHHWCF TFLRRKFQSLYLSYLGFYTPFIAFPNSISFGVL

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FIGURE 1010A

ACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAGCCCCCCCCCTCGGGGTCCCGG
CCGGGGCCCCCATCATGTTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTCCATCTCGAAAAAGAACCGCGC
GGGAAGCCCCAGCCCGCAGCCCTCGGGGGAGCTGCCAGGAAGGATGGGGCTGACGCGGTGTTCCCCGGACCAAG
CCTGGAGCCGCCCCGCTGGGTCTCCGGCGTCAAGGCCACAGGGACCCTCAAGCGGCCACCAGCCTGAGCCGCCA
CGCCAGCGCGGTGGCTTCCCCCTGTGGGTGCTGCCCTCTGGACACTGGGCCGGAGCCACCGGAGCCCCACTGAC
AGCCGCCAGCCCCGGGCGAGCTGCCACCAGGGGTGCCGGCCCGGACGTCGTCGAGGACATCTCCCATCTGCTGGC
GGACGTGGCCCGCTTCGCTGAGGGCCTTGAGAACTTAAGGAGTGTGTGTTGCGTGACGACCTCCTTGAGCCCCG
CCGCCCCGGGGCCACGAGTGCCTGGGTGAGGCTCTGCGTGTGTCATGCATCAGATCATCTCCAAGTACCCGCTGCT
GAACACCGTGGAGACGCTACCCGAGCCGCGACCCCTCATTGCCAAGGTCAAAGCCTTCCATTATGAGAGCAACAA
TGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCCTTCAGTAGCACAGTGTCCGAGTT
CCTCATGGGTGAAGTGGACAGCAGCACCCTCCTAGCAGTGCCTCCTGGGGACTCGAGCCAGTCCATGGAAAGCCT
GTATGGACCGGGCAGTGGGGCAGCGCTCCAGCCTGGAAGACTGTGACGCCGGCTGCCTGCCCGCCGAGGAGGT
GGACGTGTGCTACAGCGCTGTGAGGGGGCGTGGATGCCGCACTGCTGTATGCCAAGAACATGGCCAAGTACAT
GAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGCCAAGGGCCTGCAGAAGATCGC
TCACAACCTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCATCTACTCGCTGGCCCTGGAGCA
GGACCTGGAGTTCGGCCACAGCATGGTGCAGGCGGTGGGCACCTTGACAGCCAGACCTTCATGCAGCCCCCTGAC
CCTGCGGGCGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCACCGTGCCAGAGGAAGCTGCA
AGAGGGCGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGAGGACCACGACAAGGCTCGCTT
CCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAGCACGGCCACCAAGACCCTGGA
CAAGCGGGCGGGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGCCACCTACCGCACCTGCGTGGC
CGACGCGAAGACGCAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCGGCAGATCCAGGAGGTTCATCCG
GCAGAGCGACCAACCATCAAGTCGGCCACGATCTCCTACTACCAGATGATGCATATGCAGACGGCGCCGCTGCC
CGTGCCTTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCAGTACGCCTCCACGTGCGCCA
GCTGCAGCGGGACCAGGAGCCGATGTGCACTACGACTTTGAGCCCCACGTCTCCGCCAACGCTGGTCCCCCGT
CATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCCGAGGCTGCCGGGAGCCCCCAGAAGA
AGGCGGGTGCACTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACACCAGGTTACAAGTCATGGCC
GCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGACTTTAAGAAAGTTCGAGCGGAC
GTCATCCAGTGGTACCATGTCTGCCAGGAGAGCTGGTGGACCCAGACGGTGGAGCCGGGGCTTCAGCCTTTGA
GCAGGCTGACCTCAACGGCATGACCCCCGAGCTGCCGGTGGCCGTGCCAGTGGACCGTTCGCCACAGAGGGGCT
GTCCAAGGCGGGCCGTACTIONACCGGCTCCGGAAGCTCCGCACGCCGCCAAGTGCCGCGAGTGCAACAGCTACGT
CTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTTGGCCTGCCACAAGAAATGTCTGGAGACGCTGGCCATACA
GTGCGGGCACAAGAAGCTGCAAGGCCGCTGCAGCTGTTTCGGCCAGGACTTCAGCCACGCGGCCCGCAGCGCCCC
CGACGGCGTGCCCTTCATCGTCAAGAAGTGCGTCTGCGAGATCGAGCGGGCGGCGCTGCGCACCAAGGGCATCTA
CCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCGAGAACGGCAAGGAGCTGGTCGAGCT
GTCGACGGCCTCGCCCCACGACATCAGCAACGTCTCAAGCTCTACCTGCGTCAGCTTCCCGAGCCGCTCATCTC
CTTCCGCCTCTACACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGAGGCCGAGGCCAAGGCGGCGTC
CCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCGAGTGGCGGTGGCCCTGGCAGGTGCGCTGCGGGAGCTCCTGCG
GGACCTGCCGCTGAGAACC GGCCCTCGCTGCAGTACCTGCTGCGTCACCTACGCAGGATCGTGGAGGTGGAGCA
GGACAACAAGATGACCCCCGGGAACCTGGGCATCGTGTTGGGGCCACGCTGCTTCGGCCACGGCCACCGAGGC
CACCCTGTCCCTCTCCTCCCTGGTGGATTATCCCATCAGGCCCGGCTCATCGAGACTCTCATCGTCCACTACGG
CCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCCGGGGGCCAGGACGAGTCAATCAACAGCGAGCTGAGGTAGT
CGTCCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGAGGCGGGCGGCGGAGCGGTGCA
AGAATCCCGAGTTGTGTCCAACGATTTCGGACTCGGACCTAGAGGAGGCTCCGAGCTGCTGTCTCATCGGAGGC
CAGTGCCCTGGGCCACCTCAGCTTCTGGAGCAGCAGCAGAGCGAGGCCAGCCTAGAGGTGGCTTCTGGCAGCCA
CAGCGGCAGTGAGGAGCAGCTGGAGGCCACAGCCCGGAGGACGGGGACGGGGACGAGGACGGCCCGGCCAGCA
GCTCTCAGGATTCAACACCAACAGTCCAACAACGTGCTGCAGGCCCCACTGCCCCCATGAGGCTCCGTGGCGG
GCGGATGACACTGGGCTCCTGCAGGGAAAGGCAGCCGGAATTCGTGTCAGCTGGGGTGGGGCTGGGACACAGGT
GGCTTCTCTCTTGCCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCATAGCTTAGGTGCGCCGTCTCTGG

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FIGURE 1010B

GGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCCCAGAGGCTTCCAGGAGCACGA
GGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCTGCACCCGGCTCAGCTGAGCTGGGGAACACTGCTGT
CGTGTGAAGTCACAGTGGCCTTGTTGGTGCCACAGGGCTGTGTGGATGGAGGAAGCTGTCCCTGCCCAGTGCAT
CCCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCACAGGTCTGTGCAGGGACTCC
AGAAACCATTCTGGGAGCCGTGGATGGGGCGGAGCTGGGGTTTGGTGCAGTTTCCAGGGTGCAGTACAGCAGGG
CCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGGGGCTCAGGTACACAGTGGGGT
CTCTCGGAAGCCACCGTGTGGTTCTTTCACAGGCACGTTTATTTTGCTGAAATAAAAAGTTTTAATCGGG

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FIGURE 1011

QCGPEAASAGSCSAETPSPPPRAPGRGPIMFSRKKRELMKTPSISKKNRAGSPSPQPSGELPRKDGADAVFPGPS
LEPPAGSSGVKATGTLKRPTSLSRHASAAGFPLSGAASWTLGRSHRSPLTAASPGELPTEGAGPDVVEDISHLLA
DVARFAEGLEKLKECVLRDDLLLEARRPRAHECLGEALRVMHQIISKYPLLNTVETLTAAGTLIAKVKAHYESNN
DLEKQEFKALETIAVAFSSTVSEFLMGEVDSSTLLAVPPGDSSQSMESLYGPGSEGTPPSLED CDAGCLPAEEV
DVL LQRCEGGVDAALLYAKNMAKYMKDLISYLEKRTTLEMEFAKGLQKIAHNCRQSVMQEPHMPLLSIYSLALEQ
DLEFGHSMVQAVGTLTQTQTFMQPLTLRRLEHEKRRKEIKEAWHRAQRKLQEAESNLRKAKQGYVQRCEHDHDKARF
LVAKAEQQAGSAPGAGSTATKTLDKRRRLEEEAKNKAEEAMATYRTCVA DAKTQKQELEDTKV TALRQIQEVIR
QSDQTIKSATISYYQMMHMQTAPLPVHFQMLCESSKLYDPGQQYASHVRQLQRDQEPDVHYDFEPHVSANAWSPV
MRARKSSFNVSDVARPEAAGSPPEEGGCTEGTPAKDHRAGRQVHKSWPLSISDSDSGLDPGPGAGDFKKFERT
SSSGTMSSTEELVDPDGGAGASAFEQADLNGMTPELPVAVPSGPFRRHEGLSKAARTHLRKLRTPAKCRECNSYV
YFQGAEECCCLACHKKCLETLAIQCGHKKLQGRQLQFGQDFSHAARSAPDGVPFIVKKCVCEIERRALRTKGIY
RVNGVKTRVEKLCQAFENGKELVELSQASPHDISNVLKLYLRQLPEPLISFRLYHELVGLAKDSLKAEAEAKAAS
RGRQDGSESEAVAVALAGRLRELLRDLPPENRASLQYLLRHLRRIVEVEQDNKMTPGNLGIVFGFTLLRPRPTEA
TVSLSSLVDYPHARVIETLIVHYGLVFEEPEETPGGQDESSNQRAEVVVQVPYLEAGEAVVYPLQEAADGCR
ESRVVSNDSDSL EEA SELLSSEASALGHLSFLEQQQSEASLEVASGSHSGSEEQLEATAREDGDGDEDGPAQQ
LSGFNTNQSNNVLQAPLPPMRLRGGRMTLGSCRERQPEFV

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FIGURE 1012

GGCACGAGGGAGAACTAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCCTCTTCACCATCACAGGCTTCTGGCTGCCGAG
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTGCGGGCGGTACTTGTTCTTGCGGATCATGTGTCTGAT
GCTGCTGAGCGTGGCGCGAGCATTCTTGTGTAGTGGTGGTCCGCACATAGGAGGTGGCAGGCTTCCGCTGGCCGGA
TCTCCGCTTAATGACCACCACGACACCTTTGCCGTGGGTGCCGGCTCCACGCCCACAGTCTTGGGTGAATCAG
TCCGTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGTGTAGGTCTGCTTATTCCTCTTGAT
CAGGAACTGGAGCAGTTCGCGACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATGCGCGCCCTCCAGGAAGTCTTCGTTGGGGGAACTGGAAGA
TGAACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACCTCTGAACGCGGCCAAGGTGCCGGCCGACACCGAGG
TGGTTTGTGCTCCCCCTACTGCCTATATCGACTTCGCCCCGGCAGAAGCTAGATCCCAAGATTGCTGTGGCTGCGC
AGAAGTGTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAAGACTGCGGAGCCA
CGTGGGTGGTCTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG
CCCATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTATCGCAGATAACGTGAAGGACTGGAGCAAGGTCTGCTCTGGCCT
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCAACAGGCCCAGGAAGTACACGAGAAGCTCC
GAGGATGGCTGAAGTCCAACGCTCTGTATGCGGTGGCTCAGAGCACCCGTATCATTATGGAGGCTCTGTGACTG
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTTGGGTGGTGTCTCCCTCAAGCCCG
AATTCTGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCTACCCTTCCTGCCAAGCCAGGGACTA
AGCAGCCCAGAAGCCCAGTAACTGCCCTTTCCCTGCATATGCTTCTGATGGTGTCTGTCTCTCTCTGTGGCC
TCATCCAACTGTATCTTCCTTTACTGTTTATATCTTCACCTGTAATGGTTGGGACCAGGCCAATCCCTTCTCC
ACTTACTATAATGGTTGGAATAAACGTCACCAAGGTGGCTTCTCCTTGGCTGAGAGATGGAAGGCGTGGTGGGA
TTTGCTCCTGGGTTCCTTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA
AGATCCCCTCAGAAGGCAGGAGTGTGCCCTTCCCATGGTGGCCGTGCCTCTGTGCTGTGTATGTGAACACCC
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1013

MAPSRKFFVGGNWKMNQRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF
TGEISPGMIKDCGATWVVLGHSERRHVFGEDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKV
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP
DVDGFLVGGASLKPEFVDIINAKQ

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FIGURE 1014A

ATGGCCAAGTATGGAGAACATGAAGCCAGTCTGACAATGGGCAGAACGAATTCAGTGATATCATTAAAGTCCAGA
TCTGATGAACACAATGACGTACAGAAGAAAACCTTTACCAAATGGATAAATGCTCGATTTTCAAAGAGTGGGAAA
CCACCCATCAATGATATGTTACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGAAGGCCTCACAGGA
ACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGTGCTGCAGGTTTTA
CATCAGAACAATGTGGAATTAGTGAATATAGGGGGAACGTGACATTGTGGATGGAAATCACAACTGACTTTGGGG
TTACTTTGGAGCATCATTTTGCCTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGACCTGCAGCAGACG
AACAGTGAGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACCAGGCCCTACAGCCAAGTCAACGTCTCAACTTC
ACCACCAGCTGGACAGATGGACTCGCCTTTAATGCTGTCCTCCACCAGACATAAACCTGATCTCTTCAGCTGGGAT
AAAGTTGTCAAAATGTCCCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTATTGGGAATTGAA
AAGCTGTTAGATCCTGAAGATGTTGCCGTTTCGGCTTCTGACAAGAAATCCATAATTATGTATTTAATCTTTG
TTTGAGGTGTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAGGAAATATAAAAAA
GAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCTGAGGAGGAGCATGAGAGTCCCCGAGCTGAAACT
CCCAGCACTGTCAGTGGTTCGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGTGCTGACCTGGTTG
CTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAAAGACCAGTTTGCA
ACCCATGAAGCTTTTATGATGGAACTGACTGCACACCAGAGCAGTGTGGGCAGCGTCTGCAGGCAGGCAACCAA
CTGATAACACAAGGAACCTGTGCAGACGAAGAAGAAATTTGAGATTGAGGAACAGATGACCTGCTGAATGCTAGA
TGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGAACTGCAGAAGAAG
CAACTGCAGCAGCTCTCCGCTGGTTAACTCACAGAGGAGCGCATTGAGAAGATGGAACCTGCCCCCTGGAT
GATGATGTAAATCTCTACAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGAGGCTGAACAGGTG
AAAGTAAATTCATACTCACATGGTGGTCATTGTTGATGAAAACAGTGGTGAGAGCGCTACAGCTATCCTAGAA
GACCAGTTACAGAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTGGAATAGGTTACAA
GAAATCAATATATTGTGGCAGGAATTATTGGAAGAACAGTGCTTGTGAAAGCTTGGTTAACCGAAAAAGAAGAG
GCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAATAAGTGTGAGTGTTCGACGCTCTGGCTATT
TTGAAGGAAGACATGGAATGAAGCGTCAAACATTGGATCAGTGAGTGAGATTGGCCAGGATGTGGGACAATTA
CTTGATAATTCAGGCATCTAAGAAGATCAACAGTGAAGTCAAGGAACTGACTCAAAGATGGGATCTTTGGTT
CAGAGACTAGAAGATTCCTCCAACAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCAGATTCTCAGAAAG
GACCTTTTGGAGACTGTTGCTAAGAGAACAAGCAATTACAAAAAATCTAAGCAGGAACGCTCCTCCTCCTCCT
CCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAGTGCAGAGCTGTTG
AACTGGATTTTGAATGGAAGTGGCAATTCAGACCACAGAGATAAAAGAGTATATGAAGATGCAAGACACTTCC
GAAATGAAAAAGAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGATCCCCAGAGCAGATGAATTAACCAA
ACTGGACAAATCCTTGTGGAGCAATGGGAAAAGAGGCCTTCTACTGAAGAAATAAAAAATGTTCTGGAGAAG
GTTTCATCAGAATGGAAGAATGTATCTCAACATTGGAAGATCTAGAAAGAAAGATTGAGCTACAGGAAGATATA
AATGCTTATTTCAAGCAGCTTGATGAGCTTGAAGGTCATCAAGACAAAGGAGGAGTGGGTAACACACTTCC
ATTTCTGAATCTTCCCGCAGTCTTGGCAAGCTTGAAGGATTCCTGTCAGCGGGAATTGACAAATCTTCTTGGC
CTTACCCCCAAATTTGAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGCCCCAGATTTTGTG
CAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCGTCAACAACATCTA
GAGAATGAACTGAAGGGCCAACCTGGACATGCATATCTGGAACATTGAAACACTGAAAGATGTGCTAAATGAT
TCAGAAAAATAAGGCCAGGTGTCTCTGAATGTCTTAATGATCTTGCCAAGGTGGAGAAGGCCCTGCAAGAAAAA
AAGACCCCTTGATGAAATCCTTGAGAATCAGAAACCTGCATTACATAAACTTGCAGAAGAAACAAAGGCTCTGGAG
AAAAATGTTTCATCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAAGTGAACAAGCTA
AAGGCTTGGTTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTTTGAGGCCGATTCA
ACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCAAGGAGACGACGCA
GGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAACAATTGAATCATCTCTGAAAAAC
ATGAAGGAAATAGAGACTAATCTTCGAAGTGGTCCAGTTGCTGGAATAAAACTTGGGTGCAGACAAGACTAGGT
GACTACCAAACTCAACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTCTGAAAGTCAAGAA
AAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGAAGAATATTGGAG
CGGGATTTTGAGTACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGCAAAAGAGGATGTG
TTGCAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGCTGCCAAGGTGCCCTCTGGTGGC

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FIGURE 1014B

CAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAATTCGAGGAAAGTGCC
CACACGCTAGAGGAGGTCTGGTCTTGTGGATTGAACTGCTTCACTATTGGATCTTGAACTACCTGGTTAAAC
ACTTTGGAAGAGCGGATGAAGAGCACAGAGGTCTGCGCTGAGAAGACGGATGCTGTCAACGAAGCCCTGGAGTCT
CTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTGAGAGCTTGGCCAGACTCTGATTGATGGG
GGGATCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATATGAAGATCTAAGTCACCTGGCA
GAGAGCAAGCAGATTTCTTTGAAAAGCAACTCCAGGTGCTGCGGAAACTGACCAGATGCTTCAAGTCTTGCAA
GAGAGCTTGGGGGAGCTGGACAAACAGCTCACCACATACCTGACTGACAGGATAGATGCTTTCCAAGTTCCACAG
GAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCTAGAGGAGTTGAGAAGAAATATGCGTTCT
CAGCCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACAGAGGAAACTCCGA
GAGGTGTCCACAAAGTTCCAGCTTTTCCAGAAGCCAGCTAACTTCGAGCAGCGCATGCTGGACTGCAAGCGTGTG
CTGGATGGCGTGAAAGCAGAACTTCACGTTCTGGATGTGAAGGACGTAGACCCTGACGTCATACAGACGCACCTG
GACAAGTGTATGAACTGTATAAACTTTGAGTGAAGTCAAAGTGAAGTGGAACTGTGATTAAGACAGGAAGA
CATATTGTCCAGAAACAGCAAAACGGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCTGAAGGTTCTTTAC
AATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGCCCGGAAAATGAAG
AAAGAGGCTGCTTCTCTCTCTGAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTCCACTTCAGAAGGT
CTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGAAGAGAGAAAAGCTGAT
TTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAACTTGATTGAGGGCAGTGAGCCTATTTAGAAAGAGAGG
CTCTGCGTCTTAACGCTGGGTGGAGCCGAGTTTCGTACCTGGACTGAAGATTGGTGCAATACCTTGATGAACCAT
CAGAACAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGCTGAAGCTCTATTG
GATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTAGTATCTGAGCTGGATGATGCC
AACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGGAAGCTCAAGCAGGGAGCTT
GTAGAACCAAAGTTAGCTGAGCTGAATAGGAACTTTGAAAAGGTGTCTCAACATATCAAAAGTGCCAAATTGCTA
ATTGCTCAGGAACCATTTATACCAATGTTTGGTCAACACTGAAACATTTGAACTGGTGTGCTTTCTCTGACTTG
GAAAATTAGAAAATGACATAGAAAATATGTTAAATTTGTGGAAAACACTTGAATCCAGTGATGAAGATGAA
AAGATGGATGAGGAGAGTGCCAGATTGAGGAAGTTCTACAAGAGGAGAGAAATGTTACATCAACCTATGGAA
GATAATAAAAAGAAAAGATCCGTTTGCAATTATTACTTTTGCACTAGATACAACAAAATTAAGGCAATCCCT
ATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGATTATCTGGTTGAA
ATTAACAAAATTTTACTTTGCGATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAACACTGCTATTTAC
GAAGACTTCTCTTTTACGGAAGACTCTCTGAAGAATATCAAGACCAACTGGACAACTTGGAGAGCAGATTGCA
GTCATTATGAAAAACAGCCAGATGTCATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGATCAGAGATACACTT
ACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTTTGACAGGGCAATG
GAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGAACAGAGGCTGAAGAATTACTGGTT
GATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACCTTGAGGTGGGCATC
AGCAGCCACCAGCCAGTTTTGCGAGCTAAACCGAACTGGGGATGGGATTGTGCAGAACTCTCCAGGCAGAT
GGAAGCTTCTTGAAAGAAAACCTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGAACTGAAGGATAGG
CAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGATTATCTGTTGGTTA
ACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGAAATTAAGAGACTTA
ACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAACTGAATTGGAGATGCTTTTCAAGATAAA
AGTCTGAGTTTACCTGAAAGGGATAAAATTTAGAAAAGCTTAAGGACTGTAAATATGACATGGAATAAGATTGTC
AGAGAGGTGCTTACCACCTGAAGGAATGCATCCAGGAGCCAGTTCTGTTTACAGACAAGGATTGCTGCTCAT
CCTAATGTCCAAAAGGTGGTGTAGTATCATCTGCGTCAGATATCTGTTTCACTCTCATCTGACTTCGGAAAT
TCAATTCCTGCTGATCTTGATAAACTATAACAGAACTAGCCGACTGGCTGGTATTAATCGACCAGATGCTGAAG
TCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAATTACAAAGGCTGAC
TTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAAGCTTCCAGTTCA
GATATGAGAACAGCAATTACAGAAAAATTTGAAAAGGGTCAAGAACCAGTGGGATGGCAGCCAGCATGGCGTTGAG
CTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAAGTGGGATGACCATAGGGAGGAGACTGAAGAA
CTGATGAGAAAATATGAGGCTCGACTCTATATTCTCAGCAAGCCCGACGGGATCCACTCACCACAAATTTCT
GATAACCAAATACTGCTTCAAGAACTGGGTCTGGAGATGGTATCGTCATGGCGTTCGATAACCTCCTGCAGAAA

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FIGURE 1014C

CTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAAAACATCATGGATC
AATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGGAGGCTGAGTGGAGGACGGTGCAGGCCTCTCGCAGA
GATCTGGAAAACCTTCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGATGCCTCTCATCGG
GAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACCTCAAACAGCAGATGCAGGACATCCAGGCAGAAATTGAT
GCCCACAATGACATATTTAAAAAGCATTGACGGAAACAGGCAGAAGATGGTAAAAGCTTTGGGAAATTCTGAAGAG
GCTACTATGCTTCAACATCGACTGGATGATATGAACCAAAGATGGAATGACTTAAAAGCAAATCTGCTAGCATC
AGGGCCCCATTGGAGGCCAGCGCTGAGAAGTGAACAGGTTGCTGATGTCCTTAGAAGAACTGATCAAATGGCTG
AATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGAC
CATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCCTGAATGCTGTCGACCAGGCCCGAGTT
TTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAACAGAATTAACCTCT
GAGGAGAGAGCCCAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAAGAAAAATGGGAAAGTCTA
AATGCTGTAAGTACTAGCAATTGGCAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCTGCAGGGAGCTATG
GATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACTTACTCATT
GACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTAGAGAAGAAATGCACCAATCAACTTTAAAGTTAAA
ACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTCTCGCCAGCTAGAT
GACCTTAATATGCGATGGAACCTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAGGAAGCCACAGA
GATTTTGGACCATCCTCTCAGCATTTTCTCTCTACGTACGTCCAGCTGCCGTGGCAAAGATCCATTTACATAAT
AAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAAATGACCGAACTCTTTCAA
TCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCTACCGTACAGCAATCAAATCCGAAGACTACAAAAGCA
CTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAGTTGAACCAAATGACCAG
CTCCTCAGTGTTCCAGATGTCATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAATGCATAAGGACCTG
GTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGGTCGAACCTGGA
ATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCCAAAGGTCTCTTGAAGAAAAATACAGATATCTC
TTTAAGGAAGTTGCGGGGCCGACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCATGATGCCATCCAG
ATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCCGAGCTGCTTCCAA
CAGAATAACAATAAACCAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTGGAACCACAGTCCATGGTT
TGGCTCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAACATCTGTAAAGAA
TGTCCAATTGTGCGGTTTCCAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAGTTGTTTCTTTTCG
GGTCGAACAGCAAAAGGTACAAATTACATTACCCAATGGTGGAAATATTGTATACCTACAACATCTGGGGAAGAT
GTACGAGACTTCACAAAGGTACTTAAGAACAAGTTTCCAGGTGGAAGAGTACTTTGCCAAACACCTCGACTTGGT
TACCTGCCTGTCCAGACAGTTCTTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAGTATGTGGCCAGAG
CACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACAAATATGCCACACGA
CTGGCCCAGATGGAAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAGTGTGGAAGACGAG
CACGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGAGAGCCAGCTCAG
ATCCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAACTGGAGAGGATCATTGCTGACCTGGAGGAAGAACAAAGA
AATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTGCGTTACCGCCAGAG
TCGATTATATCTCCCCATCACACGTCTGAGGATTGAGAACTTATAGCAGAAGCAAACTCCTCAGGCAGCACAAA
GGTCGGCTGGAGGCTAGGATGAGATTTTAGAAGATCAATAAACAGCTGGAGTCTCAGCTCCACCGCCTCCGA
CAGCTGCTGGAGCAGCCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCCTCAGCATTCTGCA
CTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCCACCAGGCAGCGGGAGAGGACCTGCTGGCCCCA
CCGCACGACACCAGCACGGATCTCACGGAGGTATGAGGACAGATTACAGCACGTTTCCATCTTGCTGCCCAAAT
GTTCCACGACAGGCCACAGGCAATGTGA

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FIGURE 1015

MAKYGEHEASPDNGQNEFSDI IKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQOT
NSEKILLSWVRQTTPYSQVNVNFTTSWTDGLAFNAVLHRHKPDLSWDKVVKMSPIERLEHAFSKAQTYLGIE
KLLDPEDVAVRLPDKKSIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQTAPEEEEHESPRAT
PSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQQDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRLHDVLMELQKKQLQQLSAWLTLTTEERIQKMETCPLD
DDVKSLOKLLLEHKSLSQSDLEAEQVKVNSLTHMVVIDENSGESATAILEDQLQKLGERWTAVCRWTEERWNRLO
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRAILKEDMEMKRQTLQDQSEIGQDVQQL
LDNSKASKKINSSEELTQRWDSLQRLLEDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKSKQELPPPP
PPKKRQIHVDIEAKKFDASAEELNWLKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQERERIPRADELNQ
TGQILVEQMGKEGLPTEEIKNVLEKVSSEWKNVSOHLEDLERKIQLOEDINAYFKQLDELEKVIKTKEEWVKHTS
ISESSRQSLPSLKDSCQRELTNLLGLHPKIEMARASCALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHL
ENELKGQPGHAYLETTLKTLKDVLDNSENKAQVSLNVLDLAKVEKALQEKKTLDILENQKPALHKLAEETKALE
KNVHPDVEKLYKQEFDDVQGWKWLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWMGVKDFLMKQQAQGD
GLQRQLDQCSAFVNEIETIESSLNKMEIETNLRSQPVAGIKTWQTRIGDYQTQLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAEEEYLERDFEYKSPEELESASVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSSG
QELTSELNVVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLNLTLEERMKSTEVLPEKTDVNEALES
LESVLRHPADNRTQIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRQMLQVQLQ
ESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAEHLTLEELRRNMRSQPLTSPESRTARGGSQMDVLQRKLR
EVSTKFQLFQKPANFEQRMIDCKRVLDGVKAELHVLVDKDVDPDVIQTHLDKCMKLYKTLSEVKLETVIKTGR
HIVQKQTDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEASLSEWLSATETELVQKSTSEG
LLGDLDTEISWAKNVLDLEKRRKADLNTITESSAALQNLIEGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
VEPKLAELNRNFEKVSQHIKSAKLLIAQEPLYQCLVTTTETFTGVFSDLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQERGEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIPIQQRKMGQLASGIRSSLLPTDYLV
INKILLCMDDVELSLNVPELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIHEKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYSRDKGCFDRAMEEWRQFHCDDLNDLTQWITEAEELLV

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FIGURE 1016A

GCTGGCGGAGAGCGGCCTGCGGGCGATCGGGCCGAGCCTCGCTCAAGGAGCACCCCGGGGCACCCTCCTGTCCG
ATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGACGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCC
CGGCTGGCCCTGGGACGCAACTCGGACCAATCACAGGAGAGATGGATGAAGCCGATTCTGCGTTTTTAAATTTA
AGCAGACAGCTGATGACTCTCTGTCCCTTACATCTCCAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCG
CCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACGAGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAG
CCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAAGACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGC
ACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGTACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCA
AGGCCATTGGCCGCCTCTTCCCATGCGCTGACGACCTGCTGGAGACGCACAGCCACTTCTCGCTCGGCTCAAGG
AGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACCGGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTC
AGCAGTTTTCAGGTGAAAATGGGGAGAGAAATGAAAGAAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTG
TTAGTCATTACAAGTTGCTGCTTCAGCAAAAACAAGAAATTTCAAACTTGATCAAGAAAATTGGCAACTTCTCCA
TCGTGCGCGCGCTTGGCGTGCAGGAGTGCATTCTCTGTTACACAACGCATAACCAAATACCCAGTGTGGTGG
AGCGCATCATCCAGAACACGGAAGCTGGCACTGAGGACTATGAAGACCTGACCCAGGCCTGAACCTCATCAAAG
ATATCATCTCACAAGTGGACGCCAAGGTCACTGAGTGTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGA
TGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGCTCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGTCC
ACCTGGAGGGCATGCTATGCTGGAAGACCACATCAGGGCGCTTGAAGATATCCTGGCTATCTGCTGACCGACG
TACTTTTGTCTGTACAAGAAAAGATCAGAAATACGTCTTTGCTTCTGTGGACTCAAAGCCACCCGTCTCTCGT
TACAAAAGCTCATCGTGAGGGAAGTGGCCACGAGGAGAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGC
CGGAGATGTATGAAATCTACACGAGCTCCAAAGAGGACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGG
AGAGCTGCCCTGACGAGGAGGAGGGGCCCTTACGCTGCCGAAGAGGAAAGGAAGGTGGTCGAGGCCCCGCGCCA
CGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGAAAGACCAGCTGATCGCACAGAGCCTCTAGAGAAACAGC
AGATCTACCTGGAGATGGCCGAGATGGGCGGCTCGAAGACCTGCCCCAGCCCCGAGGCCTATCCGTGGAGGGG
ACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCAAGTGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGA
TCTGCAGGCGCTGGGCGAGGCCAACGGCCAGCGGAAGACGGAGGCAGCTCCACAGGCCCCGAGGAGGGCTG
AGACCTTCGCGGGCTACGACTGCACAAACAGCCCCACCAAGATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTG
ACCCAGGCCCCGAGACTGGCGAGGCCCCCAACAGCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGA
GCTCTGAGGAATCGCCGCAGGTGGTGGAGGCGCCAGGCACGGAATCCGATCCCCGTCTGCCACCCGTCTGGAGT
CGGAGCTTGTCCAGCGGATCCAGACACTGTCCAGCTGCTCCTGAACCTTCAGGCGGTAATCGCCACCAGGACA
GCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGCGGGAGAGCAGTTCGGCTGCAGTCGACGCGTGGGAACC
TGCTGCTGGAGCAGGAGCGGCAACGCAACTTCAGAGAAGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGA
GCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCGAGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGGGGCG
CGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCGAGCTACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGC
GCCAGCGCCAGGCCATACAGCACGACCTGGAGCGGCTGCGCGAGGCCCAGCGTGCCGTGGAGCGCGAGCGGGAGC
GCCTGGAGCTGCTGCGCCGCCTCAAGAAGCAGAACACCGCGCCAGGCGCGCTGCCGCCCGACACTGGCCGAGG
CCCAGCCCCCAAGCCACCCTCCAGCTTCAACGGGGAAGGGCTGGAGGGCCCTCGGGTGAGCATGCTGCCATCCG
GCGTGGGGCCAGGTACGCAGAGCGCCCCGAGGTGGCTCGCCGGGACAGCGCCCCACCGAGAGCCGGCTGGCCA
AGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCAACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCC
CCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGGACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGA
GCTCAGCGTCTTTCGACCTGAAGCAGCAGCTGCTGCTCAACAGCTCATGGGGAAGATGAGAGCACCTCACGGA
ACCGCCGCTCGCTGAGCCCTATCCTGCCCGGCGAGACACAGTCTGCGCCCCACCGAGCCCTGGCTTCCCCGCC
CGAGCCCACCGCCAGCTGACAGCCCTCCGAGGGCTTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGCC
CCCCAGCTCCCTCGCCACTGCCGGCCACCACTCAGCGCCAAGGAGGACGCCAGCAAAGAAGACGTCTCTTCT
TCTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATGAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAA
TCATAGCACCCCATCCGGGTGGCGGGGAGATCAACTCCGAGCTGTTTTCCGAGGCAGTGAGGAACGGTGCCGGC
TCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTTGAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGC
CGCGGACAGTGGAGCCAAGGGTTAGGGCACAGGAGGGGCCAGGTGGCGTCCGGCAGCATCTGTCCCCAGAATCA
GGCAGAATCCACTTCCCAAACAGAGCCCCACGAGGTTACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCAC
GGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCCACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTG

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FIGURE 1016B

GGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTGCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTT
CCCAAACTCTGCTTCCCAAGGGCAACCGTTGCTGTTACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTT
CAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCCTCAGCCCCCGGGAATGAGCTCCAGGGCTGGCGTCCCA
CCTTCCAGGTGGGGGCTGGCACATCAGAGCTGTCGAGAGCGCCATGTCCAGGGCATGCAGAGGTTGCACCTAG
AGACGTTGCAGCAAGTGGAACAAGTGGCCGCTGTGCGGGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCC
GTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCAGCATCAAAGGTGCTGGGACATCCAGGGTGGTGAGATCC
ATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATGTCAAGCCTTGTCTGCACCCCAAGCATTGGTGGTAGGAC
TGGGTCTGGCTGATCGTCCTTGTTCACAGTGGGGTACATGTGAGCCCCTGCCAGGGCCAAGTCTTCTCCCGAA
CCCAGGGTCTGGGAACTGCAGATCCCGGGGGGATTAGCCCTTCTCCCACTGTGCTGGCAGAGGCACCTCTGTG
ACGCTGAATACAGTGAACAGGGACATTCCCGCCACTCGGGGACAGATGGGCACAAGGGAGGGGAACTCCATCAG
GAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGCTGTGGGCTCAGGAGGGGCGGGGCAGGAGCTGGTGCCAA
CCGGGAACCAGAGCCCCACAGCCATACAGCCATTGGTGACAAGGTCTGAGAACACAGTGGCCAGGTGTCCCA
GGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCAGCCCGGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCG
TCAGATCCCATGTGTGCCATGTTTATCATCAGTGTGTTTGTATTTTGTACTGAGTATCGGAGCACTTTACAGAAG
CTGACTGTACATTCTGTCTGTGTTGTGAAGAGAACATTCCAGACCCTGGCACCTCTCTGAGCCGGCGTGTGCCG
GTCCAGCCCTCCGAGATGCCACAATTCCTTGGATGGGGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGG
GAACCCCGCGTCCCCGCCATGTGGCAGAGGGGTCTCAGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTT
CCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTGGAGCCCGATTTTATTGTAAAGTTGACAGTCGAGCAAATGT
TCCTATTTTCGTGGGATCTGCACACGTCTTGTGAGTTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTAC
AATGATTACAACATTTCTCACTGCGGGATATTTCTGACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAA
CGTGTCCGAGATG

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FIGURE 1017

MTVSQKGGPQPTPSPAGPGTQLGPITGEMDEADSAFLKFKQTADDSLSLTSPNTESIFVEDPYTASLRSEIESDG
HEFEAESWSLAVDAAYAKKQKREVVKRQDVLYELMQTEVHHVRTLKIMLKVYSRALQEELQFSSKAIGRLFPCAD
DLLETHSHFLARLKERRQESLEEGSDRNYVIQKIGDLLVQQFSGENGERMKEYGVFCSGHNEAVSHYKLLLOQN
KKFQNLIKKIGNFSIVRRLGVQECILLVTQRITKYPVLVERIIQNTAGTEDYEDLTQALNLIKDII SQVDAKVS
ECEKGQRLREIAGKMDLKSSSKLKNGLTFRKEDMLQRQLHLEGMLCWKTTSGRLKDILAILLTDVLLLLQEKDQK
YVFASVDSKPPVISLQKLIVREVANEKAMFLISASLQGPMEYIYTSSKEDRNAWMAHIQRAVESCPDEEEGPF
SLPEEERKVVEARATRLRDFQERLSMKDQLIAQSILLEKQQIYLEMAEMGGLEDLPQPRGLFRGGDPSETLQGELI
LKSAMSEIEGIQSLICRRLGSANGQAEDGGSSTGPPRAETFAGYDCTNSPTKNGSFKKKVSSTDPRPRDWRGPP
NSPDLKLSDS DIPGSSEESPQVVEAPGTESDPRLEPTVLESELVQRIQTLSQLLLLNLQAVIAHQDSYVETQRAAIQ
EREKQFRLQSTRGNLLLEQERQRNFEKQREERALEKLSQLRHEQQRWERERQWQHQLERAGARLQEREGEAR
QLRERLEQERAELERQRQAYQHDLERLREAQRAVERERERLELLRRLKKQNTAPGALPPDTLAEAQPPSHPPSFN
GEGLEGPRVSMPLPSGVGPEYAEERPEVARRDSAPTESRLAKSDVPIQLLSATNQFORQAAVQQQIPTKLAASKGG
KDKGGKSRGSQRWESSASF DLKQQLLLNKLMGKDESTSRNRRSLSPILPGRHSPAPPPDPGFPAPSPPPADSPSE
GFSLKAGGTALLPGPPAPSPLPATPLSAKEDASKEDVIFF

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FIGURE 1018

CACATGTCGGCGCAGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCA
GAAAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCC
AGTGAGGAGATTTTGAAGTAGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTG
ATCGCCAAAATCCCAAATTTTGGGTAAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAA
GATGAAGAGGCACCTGCATTATTTGACCAGAGTTGAAGTGACAGAAATTTGAAGATATTAAATCAGGTTACAGAATA
GATTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTTCATCTGAATGAGAGTGGT
GATCCATCTTCGAAGTCCACCGAAATCAAATGGAAATCTGGAAAGGATTTGACGAAACGTTTCGAGTCAAACGCAG
AATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCA
GGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGAT
ATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGAC
GAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGA
GAAGATGACTAAATAGAACACTGATGGATTCCAACCTTCTTTTTTTAAATTTTCTCCAGTCCCTGGGAGCAAGT
TGCAGTCTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGIGCTCAGTCGCCCTGTTCTTGAGGTCTCTTTTCTCTA
CTCCATGGTTCTCAATTTATTTGGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTC
TGTTTGAAGTTTCATTTTTATCCCTTCTGTCTGAACAAAACCTGTATGGAATCAACACCACCGAGCTCTGTGGGA
AAAAAGAAAAACCTGCTCCCTTGCTCTGCTGGAAGCTGGAGGGTCTAGGCCCTGTGTAGTAGTGTATAGAAT
TCTAGCTTTTTTCTCCTTTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTT
AGCATTTACCAACATGTATCTGTCTACTTTCTCTGTTTAAAAAAGAAAAAAACTTAAAAAATGGGGTTAT
AGAAGGTCAGCAAAGGGGTGGGTTTGAAGTGTGGGTGGGTTAGTGGGCATTTTGACAACATGGCTTCTCCTT
TGGCATGTTTAAATTGTGATATTTGACAGACATCCTTGCAGTTTAAAGATGACACTTTTAAATAAATTCTCTCCTA
ATGATGACTTGAGCCCTGCCACTCAATGGGAGAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTC
TATTGTAATTTGTTTCTGTTTATTTTGGGTTTCTTTTTGTTTCACTGGAAAGGAAAGATGATGCTCAGTTTTA
AACGTTAAAAGTGTAAGTTGCTTTGTTACAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTC
AGCATAGGTATGCTTACTATGACCTTCCAAGTTTGACTTGATAACATCACTGTCAAACCTTTGTCACCCCTAACTT
CGTATTTTTTGATACGCACCTTTTGCAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTTGAATCAATGT
ATTAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAAGTATTCACATCATTTGGGA
TACCAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTATCTCCAAGTGGCAGTTTTTAAATTGG
CCTTTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATA
CACGGGACAGTTGCTGGCATGTCTTCATTGGCTCTCTAAAATGTGGCCAAGAAGATAGGCTCTCAGTAAGAAGTC
TGATGGTGAGCAGTAAGTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATA
ATGGAATCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCTAATGCATAAGCTTTTTAATGCTGTAAA
ATATAGTCGCTGAAATTAATGCCACTTTTTTCAAGGTGAATTAATGGACAGTCTGGTGAACCTCAAAGCTTTT
TGATGTATAAACTTGATAAATGGAATATTCCATCAATAGGCAAAAGTGTAACACCTATCTAGATGGATAGTA
TGTAATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGA
ACATAAAGATTTAAAAAATAAAGGA

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FIGURE 1019

MSAQAAKVSKKELNSNHDGADETSEKEQQEAIEHIDEVQNEIDRLNEQASEEILKVEQKYNKLRQPPFFQKRSELI
AKIPNFWVTTFVNHPQVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFYFDENPYFENKVLSEFHLNESGD
PSSKSTEIKWKSGKDLTKRSSQTQNKASRKRQHEEPESFFTWFTDHS DAGADELGEVIKDDIWPNPLQYYLVPDM
DDEEGEGEEDDDDDDEEEGLEDEEGDEDEGEDEDDDEEGEGEGEDEGEDD

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FIGURE 1020A

CGGGAGCCCAGGCGGGCAGGCCGCTGGGGTTCGGGGCTGCACGTACGAGAGCCGGGACGCCCGGGTTTCAGAGCGAA
GGAGGAGGCATGGCTTCGGTGTTCATGTGTGGCGTGGAGGACCTGCTGTTTCAGCGGCAGCCGCTTCGTATGGAAAC
TTGACCGTGTCCACGCTGCGGAGATGGTACACGGAGAGGCTGCGGGCTTGCCACCAGGTGCTGCGGACGTGGTGC
GGGCTGCAGGACGTGTACCAGATGACAGAAGGCAGGCACTGCCAGGTGCACCTCCTGGATGATAGGAGACTGGAG
CTGCTGGTTTCAGCCCAAACCTTCTAGCAAGAGAGTTGCTGGACCTAGTGGCTTCACATTTCAACCTGAAAGAAAAG
GAGTATTTTGAATAACATTTCATAGATGACACAGGTGACGAGAAGTGGCTGCAGTTAGATCACCAGATTCTTGGAC
CACGATTTGCCCAAGAAACCAGGCCCAACCATTTTGCACCTTGTGTGAGGTTTTACATTGAGAGCATATCGTTT
TTAAAGGATAAAACCACCGTGGAGCTGTTTTCTGAATGCAAAGGCTGTGTGCACAAGGGGCAAATCGAAGTA
GAGAGCGAAACCATCTTCAAGTTAGCAGCGTTTATTTTACAGGAAGCCAAGGGAGATTATACCAGTGATGAAAAT
GCCAGGAAAGATTTAAAGACATTACCAGCCTTTCCAACCAAACCTCTTCAGGAGCATCCATCCCTTGCTACTGT
GAGGACAGGGTAATTGAGCATTATTTGAAAATCAAAGGTCTCACTCGAGGTCAAGCTGTGGTTCAGTATATGAAA
ATAGTAGAAGCTCTACCGACTTACGGTGTCCATTATTATGCAGTAAAGGATAAGCAAGGACTTCCTTGGTGGCTT
GGAATAAGCTATAAGGGAATTGGCCAATATGATATACAAGACAAGGTGAAGCCTCGGAAGTTATTCGAATGGAAA
CAGCTGGAGAAGCTTATATTTCCGTGAGAAAAAATTTGCTGTTGAAGTTCATGATCCACGAAGGATTTCAAGTTTCA
AGAAGAACCTTTGGGCAAAGTGGCCTGTTTGTGCAAACATGGTATGCTAACTCTTCTCTCATCAAGTCCATTTGG
GTAATGGCAATTAGTCAGCATCAGTTTTACTTGGACCGGAAGCAAAGCAAAGCAAATTCCTTCAGCCAGGAGT
TTAGATGAGATTGCAATGGATTGACAGAGACAGGAACACAAGGGCCTCCAAGCTGGTGACACTGGAGGCGAAA
AGTCAGTTTCATCATGGCAAGTAATGGCAGTTTAATCTCCTCAGGTTCTCAAGACTCAGAAGTTAGTGAAGAGCAA
AAGAGAGAAAAATCCTTGAAGTAAAGAAGAGGAGAACTATTACAAGAAAACTTCTGAAAAAGTTGAGGAG
CTTAAGAAGATCTGTCTGCGGGAGGCTGAGCTCAGGCAAAATGCCAAAGGAGTATCCCCTGAACATAGGCGAG
AAGCCTCCTCAGGTGAGAAGACGTGTGGGTACTGCGTTCAAATTAGATGACAACTTGCTGCCGAGTGAAGAAGAT
CCTGCTTTGCAAGAACTGGAGAGTAATTTTCTAATAACAACAAAGCTGGTGGAGCTGCAAGAACTTGCCAAT
GAGCCAGACCTTTGTAAAAGTGTGAAGAAAAAGCGAAAGCAAGATTACACAGATGCGATGAAAAAGCTTCAGGAG
ATTGAAAATGCAATAAACGAATACCGAATTAGGTGTGGAAGAAACCCAGCCAGAAAGCAACAGTGTACCAGAA
GACATAATCCCCTCAGAGAGTAGCTCTTTGTCTGACACCACCCTATGATGATCCCAGTGATGCCTTCACTTTT
CCTGGGCAGCGATCAAGTTTCAGTACCTCATTCTCCAAGAATCTTCCCCCAAGTCTCTTGGTATTGAGCGAATC
CATTTTCAGAAAGTCGTCCATCAATGAACAGTTTGTGGATACCAGGCAGTCCAGAGAAATGCTGTCCACACACAGC
AGCCCTTACAAAACCTCTGGAGAGGCGGCCCCAGGGAGGACGAAGCATGCCACCACGCCAGTTCTTACCCGAAAC
GCCTACAGCAGCAGCCACTTGGAAACCCGAATCTTCATCTCAGCACTGCCGCCAGCGGAGTGAAGCCTGGAGTCC
CAGTCCCATCTGCTCTCCGAGATGGACAGCGATAAGCCATTTTCTCCCTCTCCAAATCCCAAAGAGCAGCAGC
ACAGAAATCCTCGATGACGGGTCTTCTTATACAAGCCAATCAAGCACAGAGTATTACTGTGTGACACCAGTTACC
GGCCCCATTATACACCACCCAGACCTTGGACACTCGCACCAGGGGTGCGGAGGAGGTCAAAGAAACAGAATGTTTCT
ACTTCAAATTCAGGAAGCATGCCAACCTAGCACAAAAGGATAGTTTGAGGAATGGTGTCTTACTCAAAGAGTCAG
GAGCCACCGTCTTCCAGTTACTACATTGCCGGGTACACACCCTATGCAGAGTGTGACTTTTATTACAGTGGTGGT
TATGTCTATGAGAAATGACACCGAGGGACAGTATAGTGTCAACCCTTCCTACCGGTCTCAGCCCACTATGGATAT
GAGCGCCAGAGGGACTACAGCAGATCCTTTACGGAAGATGAGGTGACCGGGTACCCCATACCCATATGCAACT
CTCCGGCTGCCAAGGAAGGCTGCTGCAAAATCGGAGCACATCACCAAAACATCCACAAGGCCTTAGTTGCCGAG
CACTTGCGTGGCTGGTACCAGCGGGCTCTGGGCAGAAGGATCAGGGACACAGCCCGCAGACCAGCTTGACTCA
GACAGGGGATCACAGAGATGCCTGGGGTTTGGCGGGCTGCAAGTACCTTGTTCTCCAAGCAGTCGTGCATCCTTG
TACTCTTCAGTGTCTTCTACAAATGCTTCTGGGAAGTGGAGGACCCAGTTAACCATAGGGCTGTCTGGATTACGAG
ACTCCAGCACATTTCTTACACCAGCTGCTATGGCAATGTCTATAATCCTTTACCCTCTCCAAGCAGACAATAC
ACAGAAATCAGTCAACTGGATGGTACAGATGGAACACAGCTGGAAGACAACCTGGAGAGTAGTGAGCAGAGACTC
TTTTGGCATGAAGATTCAAAGCCTGGAACATTAGTCTGAAGTGCAGTTGGACCTCTTGACCAAGCACTGCGTTCT
CACACTAGTGTGCCTTGCAAATTGTATTTGTCTTCCGAGAGGATGTTGTTTTAGAAACCTAAAGACATCAAAGG
TTGAAGAGAAGACTTAGTTGCCCTGGGAAGTGAATCAGTGAATCACACACCAAGCCCCACAAAGCCCCATAAGGAG
GATTTGGCCTTTCAAACCTTAGGCACTAACGTAAGTGTAGGGTCTGCCACATGTTGAAGTATTGCCAAGAGAGG
ACTCAGTGTGAAGCCTTCATCAATAGCAAGCACTTTTAAAGGGAGTAAAGTTGTTAAAGGCAACCGTCAAAAAC
ATGAAAGGGCATTACAGGATGTCCCATGGCAATAAGAACAGGGGAAATCTCAGAGCACAATTACAGCAGGATGAGAG

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FIGURE 1020B

AAGGGGAACCAGAAGCTCCGGAGTCATTGCTCACTTCAGAGTTTGAATTCGTGAGCTGACAAAGAGTAACATGCT
CTTTCTACACAGACATGGACAATTTAGACAGTATTGGAAAATTACTTGAAGCTGGATTTTCATGAAGTTCTGAAT
GAGTGTAATGTTTTTTAGGATACTATAAAGAGTGATGTTTTTCATAAGCACCATAAAATGGGTTCTGGAAAAAC
TGATTACCTTAGCATCCTGTAATATAACTTATGGTAGCAGATTGGGGAAAATGAAGCAGCCCCTGAATAATTGA
CAAAGTCTGCTTGGAGAACATTCTAAGGTACAATATCATGGAGCTCCTTTTTCTTTCTCCACTAATTGCGTGAT
GAGCTATTGTTCTGGCTGGTAATTCTCCAACCTCGGCTGTCATTTGAAGTGGCAGACTTAATATGGAAAGTTTTTA
TAATTATGAGTTTAAAAAGCATTTTAAGATGATACAGAAAGTATCCAAAACAACAGAAAAAAAAGCCACGTCA
TTTTAGATGAATTGCGTGCCTTAAATGGTGAACGTTAGAAAATTAAACAAGTCTGGATTCCACAAGTAGTTCCA
AGTCACCAAGTGACAAAAACAAGGTTAACATTAAAAAGAAAAACAACAACGACAAAAAGCTCCAAGCTGCA
GTGGATTTAATTATGAGGCTAAACTACCTCATACTTTCCTTGGGAAGAACTAATTAGCTATGTTTTATTGTAGGG
TTTTGTTTGTGTTTTTTTAAAGCAAATGATTTCCATATTCTTGATTGATCTTTTTTGTGATCTTTGCTTCAAAA
TTACATAAAAGGTGCTCCTTTCCCCCTTCTTTTATACAAGTTTCTTGTTCATATTGTGAATAGAAAAGTTTCTGA
ACAACCTTTTTTGGAACATTTTCTATCTATATTCCAAAGCATGTAATATATACATAAAAAAGATTTGTTAACTGG
TCCTTAGTCATTTGTATAATTAGAAATGAAGTTTGGGAAAAAATTTTGAAAAAAGACAAGCAAAAAAAAATAA
CTTATTCCTTTTTTGCATATTGTATAGCCTTCTAGAATCAGAAATAACCTTTTTGCATATTCTTTTATTGTCT
GACTTTTCAAGACCTATTATTTTTTTACATAGGTCAATAAACAAGGTGTGCTACTG

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FIGURE 1021

REPRRAGRWGRGCTYESRDARVQSEGGGMASVFMCGVEDLLFSGSRFVWNLTVSTLRRWYTERLRACHQVLRWC
GLQDVYQMTEGRHCQVHLLDDRLELLVQPKLLARELLDLVASHFNLKEYFGITFIDDTGQQNWLQLDHRVLD
HDLPKKPGPTILHFAVRFYIESISFLKDKTTVELFFLNACVHKQIEVESETIFKLAAFILQEAKGDYTSDEN
ARKDLKTLPAFPTKTLQEHPSLAYCEDRVIEHYLKIKGLTRGQAVVQYMKIVEALPTYGVHYYAVKDKQGLPWWL
GISYKGIGQYDIQDKVKPRKLFQWKQLENLYFREKKFAVEVHDPRRISVSRRTFGQSGLFVQTWYANSSLIKSIW
VMAISQHGFYLDKQSKAKIPSARSLDEIAMDLTETGTQRASKLVILEAKSQFIMASNGSLISSGSQDSEVSEEQ
KREKILELKKKEKLLQEKLLKVEELKKICLREAELTGMPKEYPLNIGEKPPQVRRRVGTAFKLDNLLPSEED
PALQELESNFLIQKLVAAKKLANEPDLCKTVKKKQDYTDAMKKLQEIENAINERYIRCGKKPSQKATVLP
DIIPSESSSLSDTTTYDDPSDAFTFPGQRSSSVPHSPRILPPKSLGIERIHFRKSSINEQFVDTRQSREMLSTHS
SPYKTLERRPQGGRSMPTTPVLTRNAYSSSHLEPESSSQHCRQSGSLESQSHLLSEMDSDKFFSLSKSRSS
TEILDDGSSYTSQSSTEYYCVTPVTGPYYTTQTLDTRTGRRRRSKKQNVSTSNSGSMPNLAQKDSLNGVYSKSQ
EPPSSSYIAGYTPYAECDFYSSGGYVYENDTEGQYSVNPSSYRSSAHYGYERQDYRSRHFEDVDRVPHNPYAT
LRLPRKAAAKSEHITKNIHKALVAEHLRGWYQRASGQKDQGHSPQTSFDSDRGSQRCLGFAGLQVPCSPSSRASL
YSSVSSTNASGNWRTQLTIGLSDYETPAHSSYTSYGNVYNPLPSPSRQYTEISQLDGTGDNQLEDNLESSEQRL
FWHEDSKPGTLV

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FIGURE 1022

GGGACGTGAGCCGCTGCGCCACCGGGCTAGACCCGGCGCCATCATGCTGCTTCTGCCAAGCGCCGCGGACGGCC
GGGGCACCGCCATCACCCACGCTCTGACCTCTGCCTCTACACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTG
AAGCTTTTGTTAAGAGGAGAAACAGAAATGCTTCTGCCTCTTTTCAGGAACTGGAGGATAAGAAAGAGTTATCCG
AGGAATCAGAAGATGAAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGA
ACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATACAAGGCTACACAGAGACAGATCAAAGCAGCTC
ATAAAGCAATGGTTTTTAAACATCACCCAGACAAACGGAAAGCAGCTGGTGAACCAATAAAAGAAGGAGATAATG
ACTACTTCACTTGCATAACTAAAGCTTATGAAATGTTATCTGATCCAGTGAAGACGAGCATTAAACAGTGTAG
ATCCTACTTTTGATAACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTTCGAAGTGTTACCCAGTGT
TTGAAAGGAATTCAGATGGTCAAATAAAAAAATGTTCTAACTTGGTGATATGAATTCATCATTTGAAGATG
TAGATATATTTTATTCTTCTGGTATAATTTTGATTCTTGGAGAGAATTTCTTATTTAGATGAAGAAGAAAAAG
AAAAAGCAGAATGTCGTGATGAGAGGAGATGGATTGAAAAGCAGAACGGAGCAACAAGAGCACAAGAAAAAAG
AAGAAATGAACAGAATAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATAAAAAAGTTCAAGGAAG
AAGAAAAAGCCAAGAAAGAAGCAGAAAAGAAAGCAAAAGCAGAAGCTAAACGGAAGGAGCAAGAAGCTAAAGAAA
AACAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGAAAGAAGAGGAGGAAGTCAGACAGCAAGCAT
TGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAGCCATTAAGAAGGAAAGGCAAAAACCTCGAAAACATGCA
AGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGA
ACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAATTGGTCAGAAGATGATCTACAATTACTAATTA
AAGCTGTGAATCTGTTCCCTGCTAGAACAAATTCAAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTT
CCTCTGGAGTCAAAGAAGCTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCAAAAACCTTGACCCCTCATCAA
AAGATGACATAAATAAAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCTCAAGCAGACAACGCAA
CGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAGAACAGAAGCTTTTGGAAC
AAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAA
AGAAGGACTGCATGAAACGATACAAGGAACCTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTGC
TGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTCATTTTATAATAAAACTGAAAATACTGTAA
ACATTTTCATTCTTAAATTATACTCATGGTAATAATTTGAAAGTAAAAAAGAAAAA

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FIGURE 1023

DVSRCAHRARPGAIMLLPSAADGRGTAITHALTSASTLCQVEPVGRWFEAFVKRRNRNASASFQELEDKKELSE
ESEDEELQLEEFPMKTLDPKDWNQDHYAVLGLGHVRYKATQRQIKAAHKAMVLKHHDPKRKAAGEPIKEGDND
YFTCITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNFFEVFTPVFERNRWSNKKNVKLGDMNSSFEDV
DIFYSFWYNFDSWREFSYLDEEEKEKAECRDERRWIEKQNGATRAQRKKEEMNRIRTLVDNAYSCDPRIKKFKEE
EKAKKEAEKKAKAEAKRKEQEAKEKQRQAELEAARLAKEKEEEEVRQQALLAKKEKDIQKKAIKKERQKLNSCK
IEEINEQIRKEKEEAARMRQASKNTEKSTGGGGNGSKNWEDDLQLLIKAVNLFPARTNSRWEVIANYMNIHSS
SGVKRTAKDVIGKAKSLQKLDPHQDDINKKAFDKFKKEHGVVPQADNATPSEFEGPYTDFTPWTTEEQKLLEQ
ALKTYPVNTPERWEKIAEAVPGRTKKDCMKRYKELVEMVKAKKAAQEQVLNASRAKK

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FIGURE 1024A

GCGGCGGTGCGGCCAGGCTGCAGCTGAGCGCTCTGCGCGGCGCAGCCGGGTCTCCGCGTGTACCACGCCGTGA
CAGGTGCAGAGTCCGGGCTGAGGACCCACCTGCAGCCGCCGCCGCGATGCCACCATGCGGAGGACCGTGTGCGA
GATCCGCTCGCGCGCCGAAGTTATGAGAAGACAGATGATGTTTCAGAGAAGACCTACTGGCTGACCAGGAGGA
AGTAAGGACTATTTTCATCAACCAGCCCCAGCTGACAAAATTCTGCAATAACCATGTCAGCACTGCAAAATACAA
CATAATCACATTCCCTCCAAGATTCTCTACTCTCAGTTCAGAAGAGCTGCTAATTCATTTTTTCTCTTTATTG
ACTGCTGCAGCAAATACCTGATGTGTACCAACAGGTCGTTATACAACACTGGTTCCTCTCTTATTATTATTAGC
TGTGGCAGCTATCAAAGAGATAATAGAAGATATTAACGACATAAAGCTGATAATGCAGTGAACAAGAAACAAAC
GCAAGTTTTGAGAAATGGTGTCTGGGAAATTGTCCACTGGGAAAAGGTGGCAGTAGGGGAGATAGTGAAGTGAC
CAATGGGGAACATCTCCAGCAGATCTCATCAGTCTGTCTCAAGTGAGCCCCAAGCCATGTGCTACATTGAAAC
ATCCAACTTAGATGGTGAAACAACTTGAAAATTAGACAGGGCTTACCAGCAACATCAGATATCAAAGACGTTGA
CAGTTTGATGAGGATTCTGGCAGAATTGAGTGTGAAAGTCCAAACAGACATCTCTACGATTTTGTGGAACAT
AAGGCTTGATGGACATGGCACCCTTCCACTGGGAGCAGATCAGATTCTCTTCGAGGAGCTCAGTTGAGAAATAC
ACAGTGGGTTCATGGAATAGTTGTCTACACTGGACATGACACCAAGCTGATGCAGAATCAACAAGTCCACCACT
TAAGCTCTCAAATGTGGAACGGATTACAAATGTACAAATTTGATTTTATTTGTATCTTAATTGCCATGTCTCT
TGTCTGTTCTGTGGGCTCAGCCATTTGGAATCGAAGGCATTCTGGAAAAGACTGGTATCTCAATCTAAACTATGG
TGGCGCTAGTAATTTTGGACTGAATTTCTGACCTTCATCATCCTTTTCAACAATCTCATTCTATCAGCTTATT
GGTTACATTAGAAGTTGTGAAATTTACCCAGGCATACCTCATAAATTTGGGATCTTGACATGCACATATGAACCCAC
AGACACTGCTGCTATGGCTCGAACAATCTAATCTGAATGAGGAAGTGGCCAGGTTAAATACATATTTTCTGACAA
AACTGGTACTCTGACATGCAATGTAATGCAGTTTAAAGAGTGCACCATAGCGGGAGTTGCTTATGGCCATGTCCC
TGAACCTGAGGATTATGGCTGCTCTCCTGATGAATGGCAGAAGTACAGTTTGGAGATGAAAAACATTTAGTGA
TTCATCATTGCTGGAAAATCTCCAAAATAATCATCCAAGTGCACCTATAATATATGAATTTCTTACAATGATGGC
AGTCTGTACACAGCAGTCCAGAGCGAGAAGGTGACAAGATTATTTATCAAGCAGCATCTCCAGATGAGGGAGC
ATTGGTCAGAGCAGCCAAGCAATTGAATTTGTTTTCTGGAAGAACACCCGACTCGGTGATTATAGATTCAGT
GGGGCAGGAAGAAAGATATGAATTGCTCAATGTCTTGGAGTTTACCAGTGTAGGAAAAGAAATGTCAGTGATTGT
TCGCACTCCATCTGGAAAGTTACGACTCTACTGCAAAGGAGCTGACACTGTAATTTATGATCGACTGGCAGAGAC
GTCAAATAACAAAGAAATTACCTTAAACATTTAGAGCAGTTTGTCTACAGAAGGGTTAAGAACTTTATGTTTTGC
TGTGGCTGAGATTTAGAGAGCGACTTTACAGGAGTGGCGAGCAGTCTATCAGCGAGCATCTACATCTGTGCAGAA
CAGGCTACTCAAACCTCGAAGAGAGTTATGAGTTGATTGAAAAGAAATCTTCAGCTACTTGGAGCAACAGCCATTGA
GGATAAATTACAAGATCAAGTGCCTGAAACCATAGAAACGCTAATGAAAGCAGACATCAAAATCTGGATCCTTAC
AGGGGACAAGCAAGAAACTGCCATTAAACATCGGACACTCTGCAAACCTGTTGAAGAAGAACATGGGAATGATTGT
TATAAATGAAGGCTCTCTTGATGGAACAAGGGAACTCTCAGTCGTCAGTGTACTACCCTTGGTGATGCTCTCCG
GAAAGAGAATGATTTTGTCTTTATAATTGATGGGAAAACCTCAAATATGCCTTAACCTTTGGAGTACGACAGTA
TTTCTGACTTAGCTTTGTCTATGCAAAGCTGTCAATTTGTCTGCGGGTTTCTCTCTTCAAAAATCTGAAGTTGT
TGAGATGTTTGAAGAAACAAGTCAAAGTCGTAACGCTTGCAATCGGTGATGGAGCAAATGATGTCAGCATGATACA
GACAGCGCACGTTGGTGTGGTATCAGTGGCAATGAAGGCCTGCAGGCAGCTAATCTCTGACTACTCCATAGC
TCAGTTCAAATATTTGAAGAATTTACTGATGATTGATGGTGCCTGGAAGTATAACAGAGTCTCCAAGTGCATCTT
ATACTGCTTCTACAAGAATATAGTGCTCTATATTATCGAGATCTGGTTTGCCTTTGTTAATGGCTTTTCTGGACA
GATCCTCTTTGAAGATGGTGTATAGGTCTCTATAACGTGATGTTTACAGCAATGCCTCCTTTAACTCTTGGAAAT
ATTTGAGAGATCATGCAGAAAAGAGAACATGTTGAAGTACCCTGAATTATACAAAACATCTCAGAATGCCCTGGA
CTTCAACACCAAGGTTTTCTGGGTTCAATGTTTTAAATGGCCTCTTCCACTCAGTTATTCTGTTTTGGTTTCCACT
AAAAGCCCTTCAAGTATGGTACTGCAATTTGGAATGGGAAAACCTCGGATTATCTGCTACTGGGAACTTTGTGTA
CACTTTTGTGGTGATAACTGTGTGTTTGAAGCTGGATTGGAGACATCATATTGGACATGGTTAGCCACATAGC
GATATGGGGGAGCATCGCACTCTGGGTGGTGTGTTTGGGAATCTACTCATCTCTGTGGCCTGCCATTCGGATGGC
CCCTGATATGTCTAGGAGAGGCAGCCATGTTGTTCAAGTCTGAGTCTTTTGGATGGGCTTGTATTATCCCTGT
GGCATCTCTGCTCCTTGATGTGGTGTACAAGTTTATCAAGAGGACTGCTTTTAAACATTGGTCGATGAAGTTCA
GGAGCTGGAGGCAAAATCTCAAGACCCAGGAGCAGTTGTACTTGGAAAAGCCTGACCGAGAGGGCGCAACTGCT
CAAGAACGTCTTTAAGAAGAACCGTGAAGTTGTACCGCTCTGAATCCTTGCAACAAAATCTGCTCCATGGGTA
TGCGTTCTCTCAAGATGAAAATGGAATCGTTTACAGTCTGAAGTGATAAGAGCATATGATACCAGAAACAGAG

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FIGURE 1024B

GCCCCACGAATGGT**CA**TGGGGAGAGCCTGAAAGGCAGGCTCTGTTACCTCTCTAAGGAGAGCTACCAGGTTGTCA
CCGCAGTCTGCTAACCAATTCCAGTCTGGTCCATGAAGAGGAAAGGTAGATCTGAGCTCATCTCGCTGATGGACA
TTCAGATTTCATGTATATTATAGACATAAGCACTGTGCAACTGTACTGTAACACCATCTCTTTTGGATTTTTTTAA
GGTATTTGCTAAGTCTTTGTAAACGGAAATTGAAATGACCTGGTATCTTGCCAGAGGGCTTTCTTAAACGGAGA
ATAAGTCAGTATTCTTATGCCATTACTGTGGGGCTGTAAGTACTGTGCTAGTTTATTGGCTGTACCACAAGGTAAC
CAACCATTAAAAAACTCTAAATGATATTTAGTTAAAGGGACTCTTGGTATCCAGACTTAGATTTTCAGGATATGCT
GAAACAAACCAGCATTCTTAAGGAAGTACTCACCTTCTGAGCAAAATTTCTAAACAAGCATTGTGTCCAAAA
TTGTCTTGATAAATGTTTGCCAAAGAGGTTTCAGTAAGTGTTTTTCTAGTTTCAGTAGTCATATGCCAGAAATGTA
AGAGAAAGTTTACTTCCAGTTCCGCTGTAAGATCTGCATGCCTGACTTTCCAAATGTAAGAGTGATTACAAAAA
TGAATATTTCAAGGCATTGCTACTAAATCGGTGATGTTGCACCTTTGGCCTTACAAATGCTTCTTTGTTGTTT
GTCGTGTTTTATTTGTTAGAGGACACACGTGTTAATGTGACTCTGTTGTTATGACACTGATTTTCAAACATATGTA
TGTTTCAGGTATTTCTGATGAAGTTTCATCATCATTAGATTTTTCTAAAAATCTGGCTAATGCAGTAGATTGAG
TGATGTCATTTTGTCTTAAAGTTTTCTCTTAAAGAAACATATGCTACGTATTTACGTGGGATTTCCAAAGCTTC
TGTTGCAATATTTGGAATAACATGTCAGATAAATGCATGGGCTTTTGCTCTGTTCCAGTTCCCACTAGAGATG
CCTGTGCTTTGTGTAGCACACCCAGTGTTATGGTGACTGCCCCCTATACTGAAGACTGAAAATTATTTACAGTT
CACTCATCAAATAGTTCCCAAATTCGTCACATGCTGCTTATTGGGACAAATAGGTAGTACATTTTCCCATTTA
AAAAATGCGGATTTTACTCAGGCCGGTAACTTTACAGTCAGAGGACACGTTTCATCATGAGTAGCTTTTGTTAGTA
TGTTTTAAATGTATCTTCAGTTCAATTATTTTACGATTTTACAAGACATCTGAAAATGGCTATTTTGCTACCAA
CAGTAAATGAAGGGGCTGTTTAAAAACCACAACCACTTTTCTACACTATTTTTTAAATAATACTTTCAATTGAAA
AAAAGGAATTAGTTTTAGATACACTTCAGAGATTGAAGCAAACATTTGCTTTTACTCAAAGCCTGCTTGCC
TTTACATGGACTTACCAGCAAATAGGTAGAATTTCTCTTTTAAAAAAGTCAACTAGAATTGAGAAGAGGTGA
TTTTTTTTTCAGATCGCTTCTCGAGTTAATATTTTACATTTCTTTTACCCTTTTTCTCAATCTAGATTTAAAT
TAGGATATATGTCATTTCTTGTCTGTATTTGTAGTCTTTAGTTACCAGTATGCCCTCCATTTTCTACAAATA
AGAGGTTATAACACATATACATAATCTAACCTTAAGGGAACACACGTTTACATACTTTACTTCCCAAGCCCTTC
CTGTTTGGGGTACAGATTGAGAGAGTCATGAATCAACACATCTAGCAAGACCACAGGTGTAAGAGTCTAAGATCG
TCTTCAAATTCGTAAGTCCAGTCTTTACCTGTCCAGTGAATGAATATTACAGAGCAGCTTTTCTGGGCTTCCC
AGTGTGATAGCTGAGGTCAAACCACAAAAATAAGAAAGCAAGAGTGAAATGCACCCCTCCAGAGAAACAATTT
GTAGTGTTTAAATCTGTTAATAGAGAAGAGCTGCTTCTGTTTGGCGCTCATTTCATCAGTGGCACCCCTTCTGCAGA
ATTTTAAATATAAAACATTATGGATATAATAGAAGTGGATTTTCTGACTTAAAAATGTAAGTTTTATTTAATCT
TGAACCGTGGATTGTTTCTGTGGAGCTCTTAAACATGAGAAGAATACTTACGGTTGATAATGTGTAACATGATCT
GAAATGTGACTAATTTGAGCCTCTTTGTCCCATCGTCTGTTTTTGAATTATTGACATTGTGCTCTCTTTGCTT
CCTGGGTGAGACTTGGGGTTTGAAGGACAGGGAATGACCTTCTTGGTGAAACCTTAAATATAACATTGCAATTGC
AGTGACTTTACAGTGTTAAATTAGAGAAAATAGTCTGATTTTTTAAACCTTCTTAACTGGAAAAAGTCAATG
GTTTTACCAGGATTGAAATAAACAGTCAATGTGACTTTTAAACATGTGTTTTTTGAAATAAAGGGCAGTACTCT
TCAATTAAAAAGTTTCTTATAGGGACTCTGGCAAATGCTAACACAGTTGCTTTACAATGTTTACAATTACAGACAA
TACGACTTATAATAGAAAATCCTCATTTCATTTAGCATTGAAAAGCTGGAAGTTGCTTCTTAAATGTTGAATAGTA
TACAGTGGTATTGAGCATGGACTTTCTAAATGTTTTATATATACATATAAAAAATATATTGGTGTCTCACACCCAG
AAAGATGTTATATTGTAGATATTATTAGGAAAACAGTGTTTCTCAGGAACGTTGTAAATTTTAAATGATATATGT
ACTTCCCGTCTCTCCACCTCCACTCTGTGCTCTAATGTGAGACTGCTTCAGCAGTGTGCTAAGTTAATGGAAAA
CTTTTCTAATCAAGTCAGGTGAATGTGATTCTGCTAAATAATGTTAGCCATTTACATGAATTGTATGGTCATT
AAATGGAATCAGTGATTCTCTTTAATTTCCAGAGGGGAAATGAATTATGGAATCAGTCAGCATTCTGATCATT
AAATTTTATACTTTAAATTTGCCGTTTACGATTTCTAAATATCCAATGTGAAAGTCACATGATAATTTGTTTTGCA
TTGCGTGCAGTGTACAACTTACAACCTGTCTATTTAAATGTTTTCTCGGGAAATGAATGCTAGTCAGAAAGTA
ATAGATTGTATTATTCATAGTTTTTAAATATGACAATGTGATAATTACTACAAAGCTAAATAATCGTGTTTATT
TTTGTCAGTTGCCCTTTGATAGTTCTGTTTTTAAACCTATTAAGTGATAAATCTTACAAATAGTCATCTACA
AAATTTATGGAGAAAGTGCCAGCCCATTCACATCAGTGGACCAGGAATCTTTTGTAATGACTTAAGGTAAC
ATCATGCAGTTCAGTGCTAATAAATGCTTTTTAATGATGAGCATTCTATAATGACTCGTAAGATACCATAGTC
TGATTTTTCTCACATTAATAAATACTGAAGTCACTTGTTGTAACGTAGTTATACTTTGTGCTGATTTTAAATTAACCTT

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FIGURE 1024C

CAACAGCTATTAAAGTGGAATGTAAGTTAAATTTTGAAGGAAAGGAAATAAATGTTTTCCATATTTTCGTCTTGAT
TTACTTTTCGTATGAGAACAGCTGTGTTTTTGATAGGTTTATGGTTTGCATGAGTTCATATTTAAAGTGATCCAG
GCCAATGCATGGCTATTGCTGTAAATCTTGATGTTTATTTCTGCCTTGTAAGTTCTATCACGGCCTACCTGGAA
TTTAAATTCAGTAGACAAATTAATTGGTCCTCTGCACAACTTTTTTAATAAGTAGATTATTTTACAAAGAAATT
TGAACAAATTTAATTGAATCTTTTGTTTAGCTTGCCCTAAGAACTTTTCTTAATAAAGCTCCCAAACTTCTCA
GCAATAAATCTCCCTTAAGTAGGAAAAC TAGATTT CATATTTGCTTACTTTGAATTAACAGCAACTTTCCACAG
GTAAATCTGTTCTTGCAAAGATGTGAGCAGAATAGTTAAAAATAATTTTTATGTTTCATGGTTCTAAATGGAA
GCCATAAATGCAGTAAATACTATCTGTTGTTTAACTACTTTAATCGTCATTTTTTACATTTTCAAGTTTATTAGG
TTAAGAAAAACAGGGCAGCCTTGGAAGGCAGCTACTACAGAAAAC TGCAGTTTTGCGTTAAAGATAAAGTAGTAT
TTTCAGCTCCCTGAAAAACCATTCTGCTGAAACTGCTGTAGAAATTGTGAAGCTGCATGAGTGGAGAGTATTGA
ATCTGTGGTTATAGTAGTTTTCTCAGGTTTGTTTATCTTGATGTTTGATGCACTGTGTTTTATAGTTATTAAAT
TGAGTAATATTATTTCTATGCAGTGTATGTGTCATTGGCCTTTTGTGAATGTGCATGTTTTAACTGCAAATTT
TAAACATTTTGTCTCTAATTGTTATTAAAAATGAAATAAACTTTACCATTACTTAAAAAAA

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FIGURE 1025

MP TMRRTVSEIRSRAEGYEKTD DVSEKTS LADQEEVRTIFINQPQLTKFCNNHVSTAKYNIITFLPRFLYSQFRR
AANSFFLFIALLOQIPDVSP TGRYTTLVPLLFILAVAAIKEI IEDIKRHKADNAV NKKQTQVLRNGAWEIVHWEK
VAVGEIVKVTNGEHL PADLISLSSSEPQAMCYIETS NL DGETNLKIRQGLPATSDIKD VDSL MRISGRIECESPN
RHLYDFVGNIRLDGHGTVPLGADQILLRGAQLRNTQVWHGIVVYTGHD TKLMQNSTSPPLKLSNVERITNVQILI
LFCILIAMSLVCSVGS AIWNRHSGKDWYLN LNYGGASNFGLNFLT FII LFNNLIPISLLVTLEVVKFTQAYFIN
WDLDMHYEPTDTAAMARTSNLNEELGQVKYIFSDKTGTLTCNVMQFKKCTIAGVAYGHVPEPE DYGCSPDEWQNS
QFGDEKTFSDSSLEENLQNNHPTAPIIYEFLTMAVCHTAVPEREGDKIIYQAASPD EGALVRAAKQLNFVFTGR
TPDSVIIDSLGQEERYELLNLEFTSARKRMSVIVRTPSGKLRLYCKGADTVIYDRLAETSKYKEITLKHLEQFA
TEGLRTL CF AVAEISESDFQEWRAVYQRASTSVQNRLKLEESYELIEKNLQLLGATAIEDKLQDQVPETIETLM
KADIKIWILTGDKQETA INIGHSCKLLKKNMGMIVINEGSLDGTRETL SRHCTTLGDALRKENDFALIIDGKTLK
YALTFGVRQYFLDLALSCKAVICCRVSPLQKSEVEMVKKQVKVVT LAIGDGANDVSMIQT AHVGVGISGNEGLQ
AANSSDY SIAQFKYLKNLLMIHGAWNYNRVSKC ILYCFYKNIVLYIIEIWFAFVNGFSGQILFERWCIGLYNVMF
TAMPPLTLGIFERSCRKENMLKYPELYKTSQNALDFNTKVFWVHCLNGLFHSVILFWFPLKALQYGTAFGNKTS
DYLLLGNFVYTFVVITVCLKAGLETSYWTWFSHIAIWGSIALWVVF LGIYSSLWPAIPMAPDMSGEAAMLFS SGV
FWMGLLFIPVASLLLDVVYKVIKRTAFKTLVDEVQELEAKSQDPGAVVLGKSLTERAQLLKNVFKKNHVNLYRSE
SLQQNLLHGYAFSQDENGIVSQSEVIRAYDTTKQRPDEW

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FIGURE 1026A

CGCCCTTAGCCGATCGGGGCGCTCAGCCACACGCACCGCTGCTCGGGGCTTGGAGATCCGCGCAGGCTGGGCTC
CCGGACGCGGCGGACCGACGCGCGGAGGATCGGGATCCGGCGCTGTGGGGCTGGGGTGGGCGGGGAGGCTGGGC
CCGGGGCCTCTGGCGCGACCCCGCATGAGGACGCGAGTGAAATAGACCAAGGTGGAATTTCCAAGGGAAAAGCT
TCGGGGTGGTTTTGGTCCATTTCTCCAGCGAAGAAGTAGACATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATG
AAATAGATCTCTCGGCTCTGAGGGACCCTGCAGGGATCTTTGAATTGGTGGAACTTGTGGAAATGGAACATACG
GGCAAGTTTTATAAGGGTCGTCATGTCAAAACGGGCCAGCTTGACGCCATCAAGGTTATGGATGTCACAGGGGATG
AAGAGGAAGAAATCAAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATACTATG
GTGCTTTTATCAAAAAGAACCACAGGCATGGATGACCAACTTTGGTTGGTGTGGAGTTTTGTGGTGCTGGCT
CTGTACCCGACCTGATCAAGAACACAAAAGGTAACCGTTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAAA
TCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCATCGAGATATTAAAGGGCAAAATGTCTTGCTGA
CTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGGAATA
CTTTCATTGGAACCTCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATATGATT
TCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGC
ACCCCATGAGAGCTCTCTTCTCATCCCCCGGAATCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAAAAAT
TCCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAGCATC
CATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAGAAGA
AGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGAAGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAG
AGCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCCAACA
AGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGAGAATGAGGAGCACAAGCGGCAGC
TGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGCGGCTGGAGGAGCAACAAAGCCGAG
AGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGGAGA
GGAGGCGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCTTGC
AGCAGCAGCTACTGCATGAACAAGCTTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAGCAG
AAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTCCCTTCAGCATCAGCGGCAGGAGCAGAGGC
CTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATGAGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGG
TAGAAGAACGGTCAAGGCTCAACCGGCAAGTTCCCTGCCATGCCTCACAAGGTTGCCAACAGGATATCTGACC
CCAACCTGCCCCCAAGGTCGGAGTCCTTCAGCATTAGTGGAGTTTCCGCTGCTCGAACACCCCCCATGCTCAGAC
CAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCCCTCCAGTCAGTGC
ACGAGCAGCCACAAAGGCCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCGTGGAGATGCCAC
GCCAGAACTCAGATCCCACCTCGGAAAATCCTCCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTTGGT
TACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGAACAACCTTCTATATCCCCAGCATTAGCCAGAAAGA
ATTCTCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCCCTGATCTCC
GGAGAACTGAGCCCATCTTGAGAGGCCCTTGACAGAGGACCAGCAGTGGCAGTTTCTCCAGCTCCAGCACCCCTA
GCTCCAGCCAGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACAGAGTTTCGAG
CCAACAGTAAGTCAGAAGGATCACCTGTGCTTCCCATGAGCCTGCCAAGGTGAAACCAGAAGAATCCAGGGACA
TTACCCGGCCAGTCGACCAGCTAGCTACAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAACTAA
GAGAACTCCGGATTGAAGAAAACAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGTCAG
AAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTGACGACATACCCA
GACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGGAGA
CCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAGAGA
AGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGTGCGCCACATCAACCTCCCTGACCTGGTGCAGCAGAGCC
ATTCTCAGCTGGAACCCCGACTGAGGGACTGGGGCGCTCTCAACCCATCCCAGGAGATGGACTCTGGGACTG
AATATGGCATGGGGAGCAGCACAAAGCCTCCTTACCCCTTTGTGGACCCAGAGTATACCAGACGTCTCCCA
CTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGACGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAACAGG
CCAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCAACCAACATTGGCCCTCATAGCGACACAC
CAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGTGTAAACCTTCTGG
TGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAGTCTATAATCTGATCAACCGAGGC
GATTCAGCAGATGGATGTGCTAGAGGGACTGAATGTCTTGTGACAATTCAGGAAAGAAGAAATAGCTACGAG

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FIGURE 1026B

TTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGATCA
CTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTTAAATATGAAAGGATCAAATTTTTGGTGATTGCCT
TAAAGAATGCTGTGGAAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTGCAG
ATCTCCAGCACAAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTTTCAC
ACACTGGTTTCCATGTAATTGATGTTGATTTCAGGAACTCTTATGATATCTACATACCATCTCATATTTCAGGGCA
ATATCACTCCTCATGCTATTGTCATCTTGCTTAAACAGATGGAATGGAATGCTTGTGCTATGAGGATGAGG
GGGTGTATGTAAACACCTATGGCCGGATACTAAGGATGTGGTGTCTCAATGGGGAGAAATGCCACGCTCTGTGG
CCTACATTTCATCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAACAGGACATT
TGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTTG
CATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCCTCAACAGAAATTCATGATGAAGTGGTAAC
AGAAGAGCACTTGGCACCTTATCTTCATGGCGTTATTTCTAATTTAAAGAACATAACTCATGTGGACTTATGCCA
GTCTAGAGGCAGAAATCAGAAGGCTTGGTTGAACATATCGCTTTCCCTTTTCTCTCCCTCCGCCCTCCCAGTA
CAGTCCATCTTTCAATGTTGCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCCCAA
GAATGCTGCCTTGTCTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAACAAATATTGTGTGC
TCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAAGAA
TGGGGAAAGAATGCATACTGCGAAAATGAGTCTTTTAAATCTGTCTGCCTACTAGTTTTAAGTATATGGTATGT
TGTAATAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTACATA
GTGGAGTAATTTAAGAACTCTCTTGCCCTTCACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGAATT
TTTAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAACTACTAGCCTT
AAAACACTAGTCTAATAAAATCACTACCACTTTTGTGAATCTGACAGGCCACATTTTATATGGCCCTTTACA
GAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAACACA
ACTTTCCTCAGCTATTATGCAACAGATCAGGGAAAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGCTTC
TGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCAGCTAAGAGGTCACTTGGTTTGGGCTTC
ATTAGGACTGAGACTTTGTTGAGTTCTTCTGGGACTTGGAGAGTGGATGATATTCAGGCTCTGAACATTCCCAG
CGTCTCCCGAGGGTGCCACTTTCTCAAGATGAAAACCTGTGACTGAAAAAATTAATAATAAATGTTTCTGAGCTG
CCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCATTGG
CTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTGAGACCCTAATCACTTTACCTTCCCTCCAAA
TTACCCAACATACGGTAAACAACATTTGTGCAGAAGTATGTATGTTTAGTTTCAGGTTGACTTGTGTCCTTATA
AACTCTTACTCAAATGATTTGAACCTT

[illegible]

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FIGURE 1028A

GGACAAAGTGAATACGGCTTTGCTGAAAAAGTAGTTGAGGGAATTTCTGTTTCTGTAAATTCTATAGTCATCAGA
ATTGGAGCAAAAGCCTTCAATGCATCATTGAACCTTCTCAGCTTCGGATCTATAGTGTAATGCACACTGGGAA
CATGGAGATTTGAGATTTACTCGTATTCCAGGATCCACAGAGAGGAGAGGTTTGGACTTTTAAAGAAATAAATTGG
CAGATGATAAGAATAGAGGCAGATGCCACCCAAAGTTCACATCTTGAAATTATGTGTGCTCCTGTTTCGATTAATA
ACCAACCAATCAAAAATCAGAGTCACACTTAAAGAAGGTTAAAGGACTGCAATGTCATAGCAACAAAGTTAGTT
CTAATATTGGATGACTTATTATGGGTTTTGACTGATTCCAGTTGAAAGCTATGGTACAATATGCAAAGTCTCTT
AGTGAAGCAATAGAAAAATCAACAGAACAAAGGAAGAGTATGGCTCCTGAACCTACACAGAGCTCTACAGTAGTC
GCATCTGCCAGCAAGTGAAGACAACGCAACTTCAAATGCTCCTGATGTAAATGATGCAATTGTGAACTATTC
AATGATTTTGATGTTAAGGAAACCTCCCATCATTTAGTGATTTCTCATCTAGATCTACACATATGTGATGACATT
CATGCTAAAGAAAAAGAGTCAACAGACGTATTACTGGAGGGGCAATGCAACTCTCTTTTACACAGCTAACTATA
GATTATTATCCTTATCATAAAGCAGGAGATAGTTGTAATCATTGGATGTATTTTAGTGATGCAACCAAAACAAAA
AATGGATGGGCCAATGAGTTATTGCATGAATTTGAGTGCAACGTTGAAATGCTTAAACAGGCTGTGAAGGATCAT
AATGTAGGTTTCACTCCTAAATCCCCAACACATGCCTCTCCCCAGCACACACAAACAGAGAAGGACTACCTCTG
AAAGGGACATGCAGAACACCTTCAGTATTATCTCAACAATCAAAAGCTAAGCTAATGTCTAGTTCTGTTGTGGTT
AGACTTGCAGATTTCAATATATACCAGGTCTCTACAGCGGAACAATGTCGTTCTTCCCCAAAAGCATGATTTGC
TGCAATAAAAAATCCCTATATCTTCCACAAGAAATGTCAGCTGTCTATATAGAATTACAGAAATATTACTATCCA
GATGGAAAGGATTTTCCAATTCCATCTCCCAACCTCTATAGCCAGCTGAATGCACTACAGTTTACTGTGGATGAA
AGAAGCATTCTATGGTTAAATCAATTTCTGTTGGATTTAAACAGAGTCTTAATCAGTTTCATGGCTGTGTACAAG
TTGAATGACAATTCAAAATCTGACGAGCATGTTGATGTTTCAGTTGATGGCTTAATGCTAAAGTTGTCAATTCCT
TCTGAAGTGAATCTGAATGTCATCAAGATCAGCCACGTGCAATTTCTATTAGAGTTCTGAAATGATTGCCACA
AATACAAGGCACGTGCCAACTGTCGACATTCTGACCTAGAAGCTTTGTTTCAAGACTTTAAAGATTGTGATTTT
TTAGTAAAACATATACCAGCTTCCCCAAATCTGTGACAATTTAATCTTCTACATCCAATTTTCCAGAGACAT
GCTCATGAACAAGATACCAAAATGCATGAAATTTATAAAGGAAATATTACTCCCAATTGAATAAAAACACTCTT
AAAACCTTCTGCTGCCACGGATGTTTGGGCTGTGTACTTTTCTCAATTTTGGATAGATTATGAAGGGATGAAAAGT
GGAAAAGGACGGCCAATAAGTTTTGTAGACTCATTCCCTCTTTCATTGGATTGTCAACCAACAAGATATGCA
GAGTCACAAAAAGAGCCGACAGCTTGTAATCAGGTATCTCTAAATACATCACAAAGTGAATCTAGTGATCTGGCT
GGCCGATTGAAGCGGAAGAAGCTCTTGAAGGAGTATTATAGTACAGAGTCTGAGCCTTTGACAAATGGTGGTCAG
AAGCCTTCTTCATCAGATACATTTTTCAGATTTTCCCTTCTCTGTCAGAGGCAGATATTCATCTCCTAGTTTCAT
GTTTATAACATGTCAGTATGCAGATTAATCACTACCAGTATCTGCTTCTACTTTTCTGTCATGAGTCACATTATC
CTGCTTTCAGAGAACTTAAGGAAAGATGTAGAAGCTGTAAGTGGCAGTCTGCTAGTCAGACATCCATTTGTATT
GGAATTTTACTTAGAAGTGCAGAACTGGCTCTTTTGTCTCCATCCAGTGGATCAAGCAAATACTCTTAAGTCTCCT
GTTTCTGAAAGTGTGAGCCAGTGGTACCTGATTATTTGCCTACAGAAAATGGGGATTTTTTGTCTTCAAAAAGA
AAACAAATTAGTAGGATATAAATAGAATTAGAAGTGAAGTGTAACTGTTAATCATATGTCAGACAACAGATCTATGAGT
GTTGACCTTAGCCATATCCCTTTAAAGGATCCTTTGCTTTTTTAAATCAGCTAGTGATACAAATCTGCAAAAAGGC
ATTTCTTTTATGGACTATTTATCAGATAAACATTTAGGGAAAATAAGTGAAGATGAAAGTAGTGGACTTGTTTAC
AAAAGTGGCTCAGGAGAAATTGGATCAGAAACAAGTGACAAAAGGATTCAATTTTATACAGATTCAAGTAGTATC
TTAAACTACAGAGAAGATTGCAATATACTTTTCAATTTGATAGTGATGGTAATCAAAACATACTTTCAAGTACTTTA
ACTAGTAAAGGAAATGAAACCATAGAGTCCATCTTTAAAGCTGAAGATTTGCTTCCAGAAGCAGCTTCACTCTCT
GAAAACCTGGATATCAGTAAAGAAGAGACCCCCCAGTTAGAACACTTAAATCACAGTCATCTTTAAGTGGAAAG
CCTAAGGAACGTTGCCACCCCAACCTGGCTCCTCTCTGTGTTTCTTATAAGAATATGAAAAGAAGCTCTTCACAA
ATGTCATTGGATACCATTTCACTTGACAGCATGATATTGGAAGAACAGTTATTAGAAAAGTGATGGAAGTGATAGC
CATATGTTTTTGGAAAAAGGAAATAAAAAAGAACTCAACTACAAATTACAGGGGCACAGCAGAAAGTGGAATGCT
GGTGCAACCTACAGAATTATGGTGAACTTCTCCAGATGCCATCAGTACAAATTACAGAGGTGCTCAGGAAAAT
CATGATGACCTGATGTCCGTTGTGGTATTTAAAAATTACTGGTGTTAATGGGGAAATTGACATCCGAGGGGAAGAT
ACAGAAATCTGTCTTCAAGTGAACCAGGTGACACCAGACCAATTAGGCAATATCAGCCTTCGGCATTACCTTTGT
AATCGTCCAGTTGGTTCCGATCAGAAAGCTGTAATTCATTCCAAATCCTCTCCTGAGATTTCTCTGAGATTTGAA
AGTGGGCTGGTGCTGTAATACACTCTTTACTTGCAGAAAAAATGGATTTCTGCAAGTCCACATAGAAAACCTTC
AGCACTGAGTTTCTTACATCTTCTCTTATGAATATTCAACATTTTTTGGAAAGATGAAACTGTTGCAACAGTAATG

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FIGURE 1028B

CCAATGAAGATACAAGTTTCTAACACGAAAATAAATTTAAAAGATGATAGTCCCCGGAGTAGTACAGTATCCCTT
GAACCAGCTCCTGTAACTGTACATATTGATCATCTTGTGGTAGAGAGAAGTGACGATGGCTCTTTTCATATCAGA
GATTCTCACATGCITTAACACTGGAAATGATTTGAAAGAAAATGTCAAAGCGATTTCAGTGCTGCTGACCAGTGGA
AAGTATGATCTGAAGAAACAACGCAGTGTACGCAAGCCACTCAGACAAGCCCAGGGGTTCCCTTGGCCTTCTCAG
TCAGCTAACTTTCTGAGTTCTCCTTTGACTTCACTAGGGAACAGCTCATGGAAGAGAATGAATCTCTTAAACAG
GAACTGGCTAAAGCTAAAATGGCTCTTGCAGAGGCTCACTTGGAAAAAGATGCTCTTCTTCATCATATAAAGAAG
ATGACAGTTGAATAGCAGGAGTGGCAGTCAAACTGAAATTATAGCTCTGGAGTAGGAAGGTTATATTTATAATG
TGGATGTTACCAGTTAGGGGAAGACTTTTATTTTCATGAAAAGACAATAAAACAAAATGGAATGTGATGAAGTGG
TGACTATTTCAAAGCCAGTTTAGAAAGTATTAGTACGGGCATTACAATCTTTGGTTGTTTTGTGTTTTGGGGCT
TAACCTCTTTTAAGCTGTTGTGATCTAGGGAAGTCAACACATAGTGTAATAAATTACATGCCTAATGAAAAGA
AGATGTCATTTCTAATTTTGATATCTCATTTTCGGCATTTTTTAAAATGTAAAAGGAAAACCTCTTGTTTCAC
ACAGATTGCTGAATTGATTTCTCCATATTGTTAATAATTTACTATTATTTACAAAGATTCAAATGCTTTTATGA
CTAATGTAAAATGAAAAGAGGCTTACATTTTAAATGTTATTTAAAATTATGTACTTAAATCTATAATTATTTAATT
ATTGTAAAAAGTCCAAGCAGATCAATAAACTATATAATTAATGGGTTTGG

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FIGURE 1029

CGGTCCGGACAGCCGCGCTGAGGGTCTCGGGGCGGGCGCCGCGGGACCTCTCCGGGCCATGGCAGCCCCCTGTC
AAAGGGAACAGGAAGCAGTCCACGGAGGGTGACGCCCTAGACCCACCTGCATCCCCAAACCTGCTGGCAAGCAG
AACGGAATCCAGAACCCCATCTCGCTGGAGGACTCCCCCGAGGCAGGCGGGGAGCGGGAGGAGGAGCAGGAGCGG
GAGGAGGAGCAGGCCTTCTGGTCAGCCTCTACAAGTTTCATGAAGGAGCGACACAGCCCATCGAGAGGGTGCCC
CATCTCGGCTTCAAGCAGATTAACTGTGGAAGATCTACAAAGCAGTGGAGAAGCTGGGGGCCCTATGAGCTGGTG
ACCGGGCGCCGCTCTGGAAGAACGTGTACGACGAGCTGGGGGGCAGCCAGGCAGCACCAGCGCGGCCACGTGC
ACGCGCCGCCACTACGAGAGGCTGGTCTGCCATACGTGCGGCACCTGAAGGGGGAGGATGACAAGCCGCTGCCC
ACCTCCAAGCCCAGGAAACAGTACAAGATGGCTAAGGAGAACAGGGGGGATGATGGGGCCACCGAGAGGCCGAAG
AAGGCCAAGGAGGAGCGGCGCATGGACCAGATGATGCCAGGAAAGACCAAGCAGATGCTGCTGACCCAGCACCA
CTTCCCAGCCAGGAGCCCCCAGGAACAGCACAGAACAGCAGGGCCTGGCCTCTGGGTCTTCTGTGTCTTTGTG
GGTGCCAGCGGCTGTCTGAGGCCTACAAGCGGCTCTATCCAGCTTCTACTGCAAGGGGACACACGGCATCATG
TCACCACTGGCCAAAAAGAAGCTCCTGGCCAGGTGAGCAAGGTGGAGGCCTTGCAGTGCCAGGAGGAGGGCTGC
CGCCATGGGGCAGAGCCCCAGGCGTCCCCAGCTGTTACCTCCCAGAGAGTCCCCAGAGCCCCAAAGGGCTGACT
GAGAACTCCAGGCACCGGCTGACCCCTCAGGAGGGATTGCAGGCCCCAGGTGGCAGCCTCAGAGAGGAGGCGCAG
GCAGGCCCCCTGCCCGGCAGCCCCCATCTTCAAGGGCTGCTTCTACACCCACCCACCGAGGTGCTGAAGCCTGTG
AGCCAGCACCCACAGGGACTTCTTCTTAGACTTAAAGATGGGGTGCTATTGGGGCCTCCTGGCAAAGAGGGGCTG
TCAGTGAAAGAGCCCCAGCTGGTGTGGGGCGGAGACGCTAACCGCCCTTCTGCGTTCCATAAAGGTGGCTCCAGA
AAGGGCATCCTCTACCCCAAGCCCAAGCCTGCTGGGTGTCCCCCATGGCCAAGGTCCCAGCCGAGAGCCCCACG
CTCCCCCCACCTTCCCCAGTAGCCAGGCCTGGGCAGCAAGCGCAGCCTGGAGGAAGAGGGTGCTGCCCCACGT
GGGAAGAGACTGCGGGCCGTGTCTCCCTTCTTAAGGAGCGGATGCCAAGAAGTGTGGGGCCAAACCTGCAGGG
TCCGGCCTGGTCTCCTGCCTTCTGGGCCAGCCCTGGGGCCTGTGCCCCCAGAGGCCTACAGGGGCACCATGCTG
CACTGCCCCGCTGAACTTCACTGGCACCCCGGGCCCTTGAAGGGCCAGGCTGCACTCCCCCTCAGCCCCCTGGTC
ATCCCGGCCTTCCCGGCCACTTCTTGCCACCGCAGGCCCTCGCCCATGGCCGCTGGCCTGATGCACTTCCCC
CCAACGTCTTCGACAGTGCCTCCGCCACAGACTTTGCCCGGCCTCATCTGCCTGGCACGCACCACAGTCACA
ACCTATGCAGCGCCCCACTTCTTCCACCTCAACACCAAGCTGTAGGCCAGCCCATGGTGTGTGTACTGTGGA
GTCGACAGGGGCCTACAACAGGCAGGTACTGCTGCCAGGGGGCTCTGAACTAGTGCCTGCTACCCAGGACACCCG
GGCCATGCCCTTGGCTGGGCAGCCTGGCACAAGTGAAGAAGAAGGCAGTGGGAAAACCTGGGTTTATCTCAAGGCA
GCAGCCTGAGCCAGGAGCAGAGGACCCAGTTGTATAAGGCGCTGGGAGAGGATGGGCAGCTCCCACTGCCCCA
GAGCGGASSTCGAAGCACCCAGGTGCCCCACGGAAAATCCAATAAAAAGACACCAGTGTGAATCAAAAAAAA

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FIGURE 1030

RSGQPRAEGLGAGAAGPLRAMAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSP EAGGEREEEEQER
EEEQAFVLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGGSPGSTSAATC
TRRHYERLVLPYVRHLKGEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQMPGKTKADAADPAP
LPSQEPFRNSTEQQGLASGSSVSFVGASGCPEAYKRLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEGC
RHGAEPQASPAVHLPESPQSPKGLTENSRRHLTPQEGLOAPGGSLREEAQAGPCPAAPIFKGC FYTHPTEVLKPV
SQHPRDFFSRLKDGVLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRKGILYPKPACWVSPMAKVPAESPT
LPPTFPSSPGLGSKRSLEEEGAHSGKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGPALGPVPEAYRGTML
HCPLNFTGTPGPLKGQAALPFSPLVIPAFPAHFLATAGPSPMAAGLMHFPPTSFDSALRHRLCPASSAWHAPPVT
TYAAPHFFHLNTKL

[illegible]

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FIGURE 1032

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGTCTT
CCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 1033

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTPQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 1034A

GGTCTTCAGGAGAGCCAGGAGAGGCCAGTTGTACGTGCCTGAAACATGAGGACTTCGAGTTGGCTTTTCCTTCTC
TTGACCAAGGGCGCAGACCCCCGTGCTATTTCTCTCACGGAAGGTGATACTCCTTTGCATGCAGCACTCCACATC
TTTCTAGAGATTAAAGCTGACATTGGTTTTAGCTTCCTCAGCCATCTGTTGGATCTGTTTTGGTCCAACCCCACT
GAATTCGACTACCTCAACCCCAATGTCCAGGACAGCAATGGGAACACGCTGATGCACATCCTCTTCCAGAAGGGC
ATGCTAAAGCGCGTGAAGAAGCTGTTAGACCTGCTGGTGAAGTTTGACATCAACTTCAATCTGAAGAACAAGAG
GGCAAAGATGCACGGCACCAGGATTAAGAAGAACGACTCTCTGCTCTTGGCCTGGAACAAAGCTCTGATGGAGAAC
AGGAGGAGGAGCCGGCAGGACTCTGCTGCCACCTGGGGAAGCTCTCAAAGTCCACTGCCCTGGTCCACATCT
CAGCTCAAGTCCCAGGGTTCATTCAAGTCAGTGCCATGTGGTGCCACTGCCAGAACACTGCCTGAAGGAAGTGCA
GTCCCTGACAGCTGGGAGACTCTCCAGGTACCCAGGTGACCAGGAAGGAGCCTGGAGCTCTCAGGCCCTGCTCG
CTGAGAGACTGCCTTATGCAGGACATCACAGTTTTGATTACAGAGGTTGAAGTGGATCCGCTCTTCCAGAGGAC
TGTCTTCAGAGCTCTGAGCCTCTGGAGGCAGGAGCTGGCAAAGAAGGAAAGATGACAAGCCGACTCTGGGT
GCAGGGGCCCCCTGACTGTAGTGAGGTGGGGGAAGGACATGCTCAGGTGGGTCTTGGGGCCTGCAGCTTGTGCCT
GATGATAACAGGGGGAAGGAGGGCAATGATGATCAGGATGACTGGAGCACGCAGGAGATTGAGGCCTGCCTCCAG
GACTTCGATAACATGACCTGGGAGATCGAGTGCACCTTCAGAAATGCTGAAGAAGCTGTCTAGTAAGGTAATGACC
AAGGTCATCAAGAAGAAAATCATCCTTGCCATTACAGAGCTGGGAAATGGCGAGTGGACCCAGGGCCTGCAGAAG
CGACTGAAGCACCTGAAAGGAAGCATCCAGCTCTTCGAAGCTAAGCTGGACAAAGGAGCCCGATGCTCTGGGAG
CTCGCCATTGACTTCTCCCTCGATGCAGTGAGAACCCTGAGAAGATCATTGCCACGGAGCAGAACACGTGTGCA
ATGGAGAAATCAGGGCGGATCTACACGGAAATCATCCGATTGGGACATCGTCTTAGATCACTGCAAACCTGGCT
GATTCCATCAAGGCCATCTGCAATGCCTACAACCGGGGCTGTCTGTGTCTGCGGAAGAAGCTGAAAGGTATC
AATAAAGGCCAAGTGTGAGTAACATGAAATTCAAAAGCGTATACCTCGCTGCTATGTGGAGGACACAGAGGCC
GAGAAGGGCAGGGAGCATGTCAATCCTGAGTACTTTCCCCAGCCAGTGCAGTGGAGACAGAATATAACATCATG
AAGTTCCACAGCTTCAGCACCAACATGGCCTTAAACATCCTCAATGACACGACAGCCACAGTGGAGTACCCCTTC
CGGGTGGGTGAGCTTGAGTACGCGGTGATCGACCTCAATCCAGGCCACTGGAGCCCATCATCCTTATTGGCGCA
AGTGGCACTGGGAAGACAACCTGCTGCTTGTACAGATTGTGGAAGAAATTCCACGTTTACTGGGAAAAGCTGAG
CAGGCAGGAAGCCCATTGCTGCCAAACAGGTCTGGCTGAAGAGAAGGTTGGAAGTGAACCCGGAAAAGAGAGT
CCAGGTGGGGAGGAAGAGGGGGAGGAAGAGGACGAGGAAGAGGAAGATTCTATTGAAGTGGAAACAGTAGAAAGC
ATAGATGAGCAGGAGTATGAAGCCTGCGCAGGAGGAGCCGGTGTGGAGCCAGCAGGGGACGGCCAAGCTGCAGAA
GTATGTGACCAGAACATCCCCACCAGCTGGAGCATTTACATCAGATCTTTGTGACCAAGAACCATGTGCTGTGC
CAGGAGGTACAAAGGAATTTTATTGAGCTTTCCAAGTCCACCAAGGCCACTAGTCATTACAACCCTGGACCCC
AACATTACAAACTCCAGGACCTGAGGGACGAGAATTTCTCTGTTTGTCACTTCCAAGCAGCTGCTTCTTCTG
CTTGATGCTTCTCTGCCCAAACCATTTTTTCTGAGAAACGAAGATGGAAGCTTGAAAGAACCATCATAGGATGG
TCTGCACAGGAAGAGTCAACCATTCCTAGTTGGCAAGAGGATGAAGAGGAGGCTGAGGTGGATGGGGACTACAGT
GAGGAGGATAAAGCTGTAGAAATGCGTACGGGTGACAGTGACCCCCGGGTGTACGTGACGTTTGAGGTGTTCAA
AATGAAATATGGCCCAAATGACCAAGGGAGGACTGCCTACAACCCTGCACTGATTGGAAGAAATAAAATCT
TTTCTAAAGGGTCTTTTGAGGCCCTCAGCTGTCCCATGGGAGACTCACTGAAGAAGTATATAAGAAATTAGGG
AGGAAACGGTGGCCCAATTTCAAGGAAGACCGGAGTGAGATCTACAGCCTCTTCAGTCTGTATCAGCAAATCAGG
TCCAGAAAGGTTATTTTGATGAAGAGGATGTTCTGTACAACATATCCCGGAGGCTGTCTGAAGCTCAGGGTGCTC
CCATGGTCCATCCACGAGCTCTATGGTGATGAGATTCAAGACTTTACCCAGGCCGAGCTGGCGCTGCTGATGAAA
TGCATCAATGACCCCAACTCTATGTTCTCACGGGGACACGGCCAGAGCATCATGAAGGGCGTGGCCTTCCGC
TTCAGCGATCTGCGCTCTCTGTTCCATTATGCCAGCAGAAACACCATAGACAAGCAGTGTGCTGTCCGGAAGCCC
AAGAAGATCCACGAGCTGTACCAGAATTACAGTCCCCTCAGGAATCCTCAATCTGGCATCTGGAGTGGTGGAT
TTACTTCAGTTCTATTTCCAGAAATCTTTTGATCGCCTTCCAAGGGATTCTGGCCTCTTTGATGGTCTTAAGCCA
ACTGTTCTGGAGTCTGTAGTGTAAAGCGACTTGGCAATTTTGCTACGAGGGAATAAAAGGAAAACCTCAGCCCATT
GAATTTGGAGCCCACAGGTAATCCTTGTGGCCAATGAAACGGCAAAGGAGAAAATTCAGAAGAGCTGGGGTTA
GCACTTGTGCTAACAATTTATGAAGCAAAAGGCTTAGAATTTGATGATGTCTCCTTTACAACCTTTTACTGAT
TCTGAGGCTTATAAGGAATGGAAGATCATTTCCTCATTACACCTACCTCACTGACTCCAGAGAGGAAAACCGG
CCATTGGTTGAAGTACCCCTGGACAAACAGGCTCTTCTCAGGGTCGATCTCTCATGGTGAATCCAGAAATGTAC
AAGCTCCTCAACGGAGAGCTGAAGCAGCTGTACACCGCCATCACACGGGCTCGGGTCAACCTCTGGATCTTTGAT

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FIGURE 1034B

GAAAACCGAGAGAAACGGGCTCCCGCATTCAAATATTTTCATTAGAAGAGATTTTGTCCAAGTTGTAAAGACAGAT
GAAAATAAAGACTTTTGATGATAGCATGTTTCGTTAAGACCTCAACTCCTGCGGAGTGGATTGCACAGGGAGATTAC
TACGCCAAGCACCAGTGTGGAAGGTTGCAGCCAAGTGTACCAGAAAGGAGGTGCATTTGAGAAGGAGAAGTTG
GCCCTGGCCCATGACACTGCCCTGAGCATGAAATCCAAGAAAGTCAGCCCCAAGGAAAAGCAGTTGGAATATTTG
GAATTGGCTAAGACCTATTTGGAGTGCAAAGAGCCAACACTGTCCCTTAAGTGTCTGAGCTATGCCAAGGAGTTC
CAGCTCTCTGCCAGCTGTGCGAGAGGCTGGGAAAAGATAAGAGATGCTGCCTATTTCTATAAGCGAAGCCAGTGC
TACAAAGACGCTTTCAGATGCTTTGAGCAGATTTCAGGAATTTGATCTAGCACTCAAAATGTACTGCCAAGAGGAG
CTTTTTGAAGAAGCTGCTATTGCAGTGGAAGTATGAAGAAATGCTAAAGACTAAGACCCTTCCCATTTCCAAG
CTCTCCTATTCTGCCAGTCAGTTTTACTTGGAAAGCTGCAGCAAAGTATCTGAGTGCAAATAAGATGAAGGAAATG
ATGGCTGTCTCTCAAAGCTAGACATAGAAGACCAGCTGGTGTCTTGAAGTCTCGGAAACGCTTAGCAGAAGCT
GCAGACCTGTGAACAGGGAAGGTAGGAGAGAAGAGGCTGCCCTGCTGATGAAGCAACATGGCTGCCTCCTGGAG
GCTGCCAGGCTCACTGCCGACAAGGACTTCCAGGCCTCATGTCTGCTGGGGGCCCGCCGCTCAATGTGGCCAGG
GATTCCGACATAGAACACACCAAGGACATTCTGAGAGAAGCACTTGATATCTGCTATCAAACCTGGCCAGTTGTCT
GGCATTGCGGAGGCCCCACTTCTGCAAGGGGTAATCCTGAGAGACTTTCAGAAGCTCAGGGATGCCTTCTTCAAG
TTTGACACGCTCAACCACTCAGCTGGAGTGGTGAAGCACTCTACGAAGCAGCCAGCCAGTGTGAGGCCGAGCCT
GAGAAGATTCTGGGCTGGCTCCAGGGGGCTTGAAATCCTCCTCAGTCTGGTCAGGGCTCTCAAAGAGTGACC
AACAAATGCTGAGAAGGAAATGGTCAAATCTTGCTTTGAGTTTTTTGGGATTTCCAGGTGGATGCCAAGTATTGC
CAGATAGCTCAGAATGACCCTGGGCCCCATATTAAGAATAATTTTTGACCTGGATTGAACTTGAGAGAGAAAAAA
ACAAAAGATCATTTTTTGATAATGACTGACCAAGTGAATTAGCCCTAAACAAACACCTTTTGGCGAGGCTGTGT
CAGATCACACGGAGCCTGCTTGGGAAGACCTACCGAGGAGTCTGCATGAGGTTTATTGTAGGCTTAAATGTGAG
GATGAAAACCTGTGAACATTTTCACAGGCCTCTGCGGCGTTGTGAAGCCAAGTGTTAGTTTCAGTCGAAAATGAAC
TTGGTGGCAATCAACGGGTTGCTTTTGAAGCCAAAAAAGTATCCCTAAAATCTTAGCAGAAGAACTTAAAGAA
ATTGATTATATTTTGTCTACAGATATGTATGGCTTTGCAAGTCCATTCTGGATGTCTTTTCCCTAAGCATTTTC
CATCAGAGAGTGTGTGAGAAAACCCCATGGCATGCAAAGAAATCCTCAAACCAATTACAAATCCTTCCGGTTTC
TACAGATTTGCTTTGAAGGAGTACATCCACTTCTGTTTGAAGTGAAGCGCACGCAACCGCCGGGAATCCACA
GACCTGTGGCTGAGTGCCATGCAAGCTTTCCTTCTCTTCCAACTACCCGGAGGAGTTTGAAGAGCTGCTCCAC
CAGGAGGAGGACAACTACAACAGGGAACCTCAAAGCTCTAGAGTCTGAAAAGGATGAAAGGGGCAGGGGGAGAGGC
AGCAGGATAAAAGGAATAGAAGGGAAATTTGGCATGCTGGCACCCAAACAGGGATGATGAAAATATGGACAAGACC
CACCTGTGCTTCATCCGGCTTCTGGAGAATTGCATTGATCAATTCTACGTGTACAGGAACCCAGAAGACTACAAG
AGGCTCTTTTTCCGTTTCATGAATGTCTCATCAAGAGGTGCAAAGAACCCTCATCCCCAGCATTGGAAACACA
GTAGCCCTCCTGGAGTTCCAGTTTCACTCACTGTGGGGTGGTGCTGGCCCCGCTCTGGAAGAATGTCAATTCTATGC
CTCCCCAAGAGCTACATTGCACTCTTGCACTACTGGGAGTTTCTGTTTAGCAAGAAGGACAAGGAGCTTGGGGAT
GTGTTCTCCATCATTTCAGGAATACAAACCAAGGACGTGACAAGAGCCATTTCAGGATTTCCGGTTCCATCTCTCC
TACCTCGCCAAGGTGCTATGTGGCTATGAGAATGTGAACCTCAACGTCTGCTTGTATGCCTTCAGTGAAATAGAC
TATGTGGTCTCGGGTGAGGCTGAGCGGACACTGGTGCTGTGCTTGGTGATGCTAGTGAATGCTGAGGAGATCCTG
CAGCCATACTGCAAGCCTCTCCTGTATCGCCACTTCCGGGAGATTGAGTCAAGGCTGCAGCTCATGAGCATGGAC
TGCCCTGGCCAGGTTCCCGAGAGGCTCCTGAAGGTGGTGAAGCGGGTCTTGGTGGCAGTCAATGTGAAGTCTGTG
GCTGAGGCACTGCAGGACCTGCTCTTTGAGCGGGATGAAGAGTACCTAATGGACTGTGACTGGCGGTGGGACCCT
GTGCACACCAAAGGTTCCATAGTCCGTGGCCTCTATTATGAGGAGGTGAGCTAAACCGCCTGCTCTGTTTGGAC
CCTGTGGACTACTTTGCTGAACCTGAGTGTGAGTTTGGCCAGGATGAGATGGATGAACTGGCATTAGAAGACCGA
GACCACGTCTGGCCACCATTCTTTCCAAAAGCAACGGAAGGCTCCATACAGCGGAAGTTGAGGAGGGCATGC
CTGGTGGTGTCTCTGTGCATCAGTTGGAGGAGAAGAGTGGGCACCCAGATGGAGCGTGTGAGGAGGAGGCCAGG
GAGCCAGGGCTGGGAACCTTCAAAAAGGCAGACGTGGACAGGACCCAGTGTGACCTATGTGGAGTGAAGTTTACC
CGTGGCCAGAGAACTATTTTCAGCCCCAGCAAAGCGTTTGAAGGGGCAGCTTCCGAGGTGGCAGTCTTTCCAGG
GCTGAGCTGGAAGGGAGGAGTGTGAGGAGGGAACAGCGAGTCTTACGAGCAGCATATCCATCTAGAACACCAC
CAGAGGCAGCAAGTGGCCTACCAGAAATACTCAGAATTTTTCCACGAGAAGGTGGACCCGGCCATTGATGAAGGC
AAGCTGGTGGTGCAGGACATCGAGCAAAGTGTATGGATCCACAGTCACGTGGGTCCAAGGAGCACAGCCACATG
CTGCAGAAGGTCCAGGAGCACATCAAGAGGGTTTCGGATATGTTGGAGGACCTCTACAGGCGGAAGGCTGGGCT

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FIGURE 1034C

GGCGCGGAGGAGGCGATGACTCGGCTGGTCAACATTCTGATCCTGTCAGTCAGGGATGCACGAGACTGGTTGATG
AAAACAGAGACCCGCTTAAAGAAGGAAGGTATTGTTTCAGGAAGATGATTATGAAAATGAAGTTGAAGACTTTGGT
GAGCTTCGGCCTAGAAGGCGTTCTCGGAAATGTGGAAAGCAGAGAAAAATAC**TAAT**GTCCACACAGCTGCAGCCTC
CTCATCCTTCGGAACATTCCATTCTGACTTAGAATTCTGAGCGCTGGGGCAGAAGACAAAAAGAATGTGAATTAG
CATTTTAAAAATAGGGGAGTCTAACAACACCATTGCTTTTTATTCTCATTACTTCTCTTCAGTGGCTTAGGATC
TGATTGCTCCCTCACCTCTAAAGTGTTTCCAAGTAGAGTCTGGCAGTATTAGTTTCCCCACAAACAAATTCAGG
TAGAGAAGTTGTAGTCGAAGGGAATGTTGGGACTCCTCACTGCATGGTCCCTGGGGTGTCTGGCTCATCCCCATC
ATGACGTGAGTTGGTAGCAGAGGACTAGGTGTTAGGACAGACTCTCCTCACCTCAGTTGCTGCTGCTCTGGGCCA
GGAAATCTCTCTATGGATTCCCTCATCTCCTGCCACACTGCTGCAGCATCAAGTGTGCTATGAGAGCTGTATGTG
CCCAGGGGTGGGCCCTGCCACTGGCCACCCCGAGCCAGGACGCATTCTGGTCATCTCTGAGCCCACTTGTAGTG
TAGCTTCTTCTGTAGAGATGTTAGCCTTTTCTCTGTGGCGACTTTTCTGCCTTCCCTTCTTCTGTTTTTTGT
GATCATTCTTAGCTACCTGTGCCAAGTCACAGTTAGACTACCTCAGAATGTAGTCAAGAATTCACCCAGTGTCT
TTGGATGTCCCTTCCCTAGGGGGAAAGGCTGGGGAATGTTGCTGGGAGCATTCCCAGCTGCCTCTCCAAAGTGGT
CCTAACTCTGCCCTGGCTATGGTGCAGACATTCCAAAAAGTGTGTTGTATACAGCCCTGTACATCTAGTTTTCTT
GGTTCTCCCTGGCAAGTTCGCTACCCTAGCTTAGGCTGACGTTCTGATGAGTCTCTGCTTGCTGAGCTCATCACT
GTGGGATGGTGACCTGCAGAGCTGCAGATTGGAGCAAGTGACAGAGGAGGGAGCCAGCTAAGCCAAATCCGTCA
CTGCCACTTGGCTGGCAGGCCTTATAAGAGGGCGGATCTGGGCCCGTTTGAGGAGGCCATTGCCTACCCTCTCC
CCACAGTGAGCCAGCAGCCATCAGCTGATCCACCTGGGAAACCTTCATGCCTCTCTGATGGTTACTGCCCACCC
TTACCCACCCCTCAGCTCAGCCTGGTATGGAAAGCAAGGTGCACGTTGGTCTTTGATTGTTCTGTCTCACAGC
AGAGCCAGCTTTCCCCCATGTTGCTGCTGCTTTTGCTGCTCATGCTGCTTGTGTTTTCTCTTCTTATCTTTT
CAAATTGTTTCCTTGAAATGCTTGTTCCAATTTTCTTAGATTATGTTCTAATTTTATTCCAGGTGTTTTT
TTTCTTACTTGACAGAAAAAAGAAAACCCCAACAATATCTTGCTGTATTATCACATTTTTTATAAAGTTAAAGC
ATTTCTCTT

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FIGURE 1035

GSPKRGRAYKEWKIISSFTPTSTDSREENRPLVEVPLDKPGSSQGRSLMVNPEMYKLLNGELKQLYTAITRARVN
LWIFDENREKRAPAFKYFIRPDFVQVVKTDENKDFDDSMFVKSTPAEWIAQGDYYAKHQCWKVAACYQKGGAF
EKEKLALAHDTALSMKSKKVPKEKQLEYLELAKTYLECKEPTLSLKCLSYAKEFQLSAQLCERLGKIRDAAYFY
KRSQCYKDAFRCFEQIQEFDLALKMYCQEELFEEAAIAVEKYEEMLKTKTLPISKLSYSASQFYLEAAAKYLSAN
KMKEMMAVLSKLDIEDQLVFLKSRKRLAEAADLLNREGRRREEAALLMKQHGCLEAARLTADKDFQASCLLGAAR
LNVARSDIEHTKDILREALDICYQTGQLSGIAEAHFLQGVLIRDFQKLRD AFFKFDTLNHSAGVVEALYEAASQ
CEAEPEKILGLAPGGLEILLSLVRALKRVTNNAEKEMVKSCFEFFGISQVDAKYCQIAQNPGPILRIIFDLDLN
LREKKTGDHFLIMTDQVKLALNKHLLGRLCQITRSLLGKTYRGVCMRFIVGLKCEDENCEHFHRPLRRCEAKCLV
QSKMNLVAINGLLLEAKKVFPKILAEELKEIDYILSTD MYGLCKSILDVLFPKHFHQRVLSNPMAKKEILKPNY
KSFRFYRFALKEYIHFLFENESARNRRESTDLWLSAMQAFLLSNYPEEFKLLHQEEDNYNRELKALESEKDER
GRGRGSRIK GIEGKFGMLAPNRDDENMDKTHLCFIRLLENCIDQFYVYRNPEDYKRLFFRFMNVLIKRCKEPLIP
SIGNTVALLEFQFIHCGVVLARLWKNVILCLPKSYIALHYWEFLFSKKDKELGDVFSIIQEYKPKDVTRAIQDF
RFHLSYLAKVLCGYENVNFNVLLDAFSEIDYVVSGEAERTLVLCVLMVNAEILQPYCKPLLYRHFREIESRLQ
LMSMDCPGQVPERLLKVVKRVLVAVNVKSVAEALQDLLFERDEEYLMDCDWRWDPVHTKGSIVRGLYEEVRLNR
LLCLDPVDYFAEPECEFGQDEMDLALED RDHVLATILSQQRKASTQRKLRRACL VVSLCISWRRRVGTQMERV
REEAREPRAGNFKKADVDR TQCDLCGVKFTRGPENYFSPSKAFEGAASEVAVLSRAELEREECQERNSESYEQHI
HLEHHQRQQVAYQKYSEFFHEKVDPAIDEGKLVVDIEQSVWIHSHVGSKEHSHMLQKVQEHIKRVSDMVEDLYR
RKAWAGAEAMTRLVNII LLSVRDARDWLMKTETRLKKEGIVQEDDYENEVEDEFGELRPRRRSRKCGKQRKY

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FIGURE 1036A

GGCCGCGAGTGCATCTTCCACGAACCTAATTCATCTCTCCAGCAAAGGACACATCTCTCCAGCAAAGGACACCTC
TCTCCAGCAAAGGACACCTGCAGAGATGTCCCGAGTCTTCACTTCTATGTTCTGTCCTCTGGCCATGAGGGGGC
AGCCTCTGGACACACTCGGAGGAACTGCAAGGGAACTGCCAGAGCTGCAGGGCGTCGAGACTGAACTGTGCTA
CAACGTGAACTGGACAGCTGAGGCCCTCCCCAGTGCTGAGGAGACAAAGAAGCTGATGTGGCTGTTTGGTTGCC
CTTACTGCTGGATGATGTTGCTCGGGAGTCTGGCTCCTTCTGGCTCCAATGACCTGCTGCTGGAGGTGGGGC
CAGGCTGAACTTCTCCACCCCAACATCCACCAACATCGTGTCACTGTGCCGCGCCACTGGGCTGGGGCCTGTGGA
TCGTGTGGAGACCACCGGCTACCGGCTCTCGTTTGCCACCCCCGTCAGCTGAGGTGGAAGCCATTGCTCT
GGCTACCCTGCACGACCGGATGACAGAGCAGCACTTCCCCATCCCATCCAGAGTTTCTCCCCTGAGAGCATGCC
GGAACCCCTCAATGGCCCTATCAATATACTGGGTGAGGGCCGGCTTGCCTGGAGAAGGCCAACCAGGAGCTTGG
TCTGGCTTTAGACTCTTGGGACCTAGACTTCTACACCAAGCGCTTCCAGGAGCTACAGCGGAACCCGAGCACTGT
GGAGGCCTTTGACTTGGCGCAGTCCAATAGCGAGCACAGCCGACACTGGTTCTTCAAGGGCCAGCTCCACGTGGA
TGGGCAGAAGCTGGTGCACCTACTGTTTGTAGTCCATCATGAGCACCCAGGAATCCTCGAACCCCAACAACGTCT
CAAATTCTGTGATAACAGCAGTGCAATCCAGGGAAAGGAAGTCCGATTCTACGGCCTGAGGACCCACACGGCC
AAGCCGCTTCCAGCAACAGCAAGGGCTGAGACATGTTGTCTTACAGCAGAGACTCACAACCTTTCCACAGGAGT
ATGCCCTTTAGTGGTGCAACCACTGGCACAGGGGGCCGGATTGAGATGTCCAGTGACAGGCCGCGGGGCCCA
CGTGGTGGCTGGCACTGCCGGCTATTGCTTTGGAAATCTGCATATTCAGGTTACAATCTGCCCTGGGAGGATCT
AAGCTTCCAGTATCCTGGGAATTTTGGCCGGCCCTGGAGGTTGCCATTGAAGCCAGTAATGGAGCTTCTGACTA
TGGCAACAAGTTTGGGAACCACTGCTGGCTGGCTTGGCCGCTCCTTGGGCCTCCAGCTCCCAGACGGCCAGCG
GCGTGAGTGGATCAAGCCCATCATGTTTGTAGTGGGGCATTGGGTCCATGGAAGCTGACCACATAAGCAAGGAGGC
CCCAGAGCCAGGCATGGAAGTTGTAAAGGTTGGAGGTCCCGTCTACAGGATTGGAGTTGGAGGTGGAGCTGCTTC
ATCTGTGCAGGTGCAGGGAGATAACACCACTGACCTGGACTTTGGGGCTGTGCAGCGAGGAGACCCGGAGATGGA
ACAGAAGATGAACCGTGTGATCAGGGCTTGTGTGGAGGCCCAAGGAAACCCCATCTGCAGCCTTCATGATCA
GGGCGCTGGTGGCAATGGCAATGTCTTAAAGAGCTGAGTGACCCAGCTGGAGCCATCATTTACACAGCCGCTT
CCAGCTTGGGGACCAACCCCTGAATGCCCTGGAAATCTGGGGGGCTGAGTACCAGGAATCAAATGCTCTTCTGCT
GAGGTCCCCCAACCGGACTTCTGACTCATGTCACTGCCCCGTGAACGTTGCCCGCTTGCTTCTGGGACCAT
CACTGGAGACCGGAGAATAGTGTGGTGGACGATCGGGAGTGTCTGTGAGAAGAAATGGCCAGGGGGATGCCCC
CCCGACACCCCGCAACCCCTGTGGACCTGGAGCTCGAATGGGTGCTGGGCAAGATGCCTCGGAAGGAGTTCTT
CCTGCAGAGGAAGCCCCCATGTGTCAGCCTCTGGCCTTGCCCCAGGGCTGAGCGTGCACCAGGCTCTGGAGAG
GGTCTGAGGCTGCCCGCCGTGGCCAGCAAGCGCTACCTCACCAATAAGGTGGACCGCTCCGTGGGAGGCCTGGT
GGCCAGCAGCAGTGGCTGGGGCCCTGCAAACCTCTCTGGCAGATGTAGCGGTTGTGGCACTGAGCCATGAGGA
GCTCATAGGGGCTGCCACAGCCTTGGGAGAACAGCCAGTCAAGAGCCTGCTGGACCCAAAAGTCGCCCGCCGGCT
GGCCGTGGCCGAAGCCCTCACCAACCTGGTGTGTTGCTCTGGTCACTGACCTCCGGGATGTGAAGTGTAGCGGGAA
CTGGATGTGGGCAGCAAGCTCCAGGGGAGGGCGCAGCTTTGGCGGATGCCTGTGAGGCTATGGTGGCAGTGAT
GGCAGCCCTGGGTGTGGCAGTGGATGGTGGCAAGGACTCCCTCAGCATGGCTGCTCGGGTGGCACTGAGACCGT
GCGGGCTCCTGGGTCACTGGTCACTCAGCCTATGCCGTCTGCCAGACATCACAGCCACTGTGACCCAGACCT
CAAGCATCCTGAAGGGAGAGGCCATCTGCTCTATGTGGCTCTGAGCCCTGGGCAGCACCGGCTCGGGGGCACAGC
TCTGGCCAGTGCTTCTCCAGCTTGGGGAACACCTCCAGACCTGGACCTTCTGAGAACTTGGTGGGGCCTT
CAGCATCACTCAGGGGCTGCTGAAAGACCGCCTCCTGCTCAGGCCACGATGTCACTGACGGAGGCCTCGTCAC
ATGCCCTGCTGGAGATGGCCTTTGCTGGAAATTGCGGGCTACAGGTGGATGTGCCTGTCCCCAGGGTTGATGTCT
GTCTGTGCTGTTTCGCTGAGGAGCCAGGCCTCGTGTGGAGGTGCAGGAGCCAGACCTGGCCAGGTGCTGAAGCG
TTACCGGGATGCTGGCCTCCATTGCTGGAGCTGGGCCACACAGGCGAGGCCGGGGCCCCACGCCATGGTCCGGGT
GTCAGTGAACGGGGCTGTGGTTCTGGAGGAGCCTGTTGGGGAGCTGCGAGCCCTCTGGGAGGAGACGAGTTTCCA
GCTGGACCGGCTACAGGCAGAGCCTCGCTGTGTGGCAGAGGAGGAACGGGGCCTGAGGGAGCGGATGGGGCCCAG
CTATTGCTGCCCCCACCTTTCCCAAAGCCTCCGTGCCCGTGAGCCTGGTGGTCCCAGCCCCCGAGTCGCCAT
CTTGCGAGAGGAGGGCAGTAATGGAGACCGGGAGATGGCCGATGCCTTCCACTTAGCTGGGTTTGAGGTATGGGA
CGTGACCATGCAGGACCTCTGCTCTGGGGCAATTGGGCTGGACACTTCCGTGGCGTGGCCTTCGTGGGCGGCTT
CAGCTATGCAGATGCTCTGGGCTCTGCCAAAGGTGGGCAGCTGCTGTGACCTTTCATCCCAGGGCTGGGGCTGA
GCTGAGGCGCTTCCGGAAGCGGCCAGACACCTTCAGCCTGGGCGTGTGTAATGGCTGTCAACTGCTGGCTCTGCT

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FIGURE 1036B

CGGCTGGGTGGGAGGCGACCCCAATGAGGATGCTGCAGAGATGGGCCCTGACTCCCAGCCAGCCGGGCCAGGCCT
TCTGCTACGCCACAACCTGTCTGGGCGCTACGAGTCTCGCTGGGCCAGCGTGCCTGTGGGGCCTGGGCCAGCCCT
GATGCTGCGAGGGATGGAGGGCGCCGTGCTGCCCCGTGTGGAGTGCACACGGGGAAGGTTACGTAGCATTTTCTTC
TCCGGAACCTCCAAGCTCAGATTGAGGCCAGGGGCTTGGCTCCACTGCACTGGGCTGATGATGACGGGAACCCAC
AGAGCAGTACCCTCTGAATCCCAATGGGTCCCCAGGGGGCGTGGCTGGCATCTGCTCCTGTGATGGCCGCCACCT
GGCTGTATGCCCTACCCCTGAGCGGGCCGTTAGGCCTTGGCAGTGGGCATGGCGACCCCTCCATTTGATACTCT
GACCACCTCCCCCTGGCTCCAGCTCTCTATCAATGCCCGAACTGGACCCTGGAAGGGAGCTGCTCACTGGCCAC
AGGGGCTCACCTGGGCCCCATGGCTTTTACCTAAGTGGGTCTGCCCTCCCCCTCCCCATGACCTTCAGGAGCACCC
CATATTATTTCCAAAAATATCTTGGACAGACAAGGACCAAAATGCCAAAATCTCAGCGGACTCGATGATCTGCCT
GCTGATGTTCTTCTGTGGCTGTGTCTATTTTCAGTTCTGCTCTAACATGGCATGCCCTTTTCTCAGCCCAGGAAA
CAGCATGTGGTTCAGAGAAAAGAGCGACAAGGAAAAGTTAGGACTCCTGAGGTCCGAACAGGGGCTTCTGTTGCC
CACTTCACAACACCCAGTGATCACCGGTGTGCAATTGCCTCCTTGGCTCTGAGGGATGTTTTGCGCTCCCTTTTC
TCATCATTGGGGTTAGCGGGTGCAGACAAATTCAGCAATAGTATGCAGATCAGCCCCTCACCACCTCATTGTTCT
CATCTGGAAC TGAACTTTCTGGATTTCTCTTGAAGTGCTACACTGCACTGAATGTAAGGAATTGTTGCTTGTTGG
AAGTTTCTCAGCGTTTCTGGCTGTCTTAGGGCTGGCCTCAGAACCCAGCATTCTGTTATTTGCTTCTAAATTAG
CAGCTCTCTTTTTTTTTTTTTTTTTTTGAGGCAGTCTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCGTGATCTCG
GCCCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTTTCTGCCTCAGCCTCCCGAGTAGCTGGGAGTACAGGC
ACACACCACCACCCAGCTAATTTTGTATTTTGTAGTAGATAGGGTTTACCGTGTCTCCCAGGCTGGTCTC
AAACTCCTAACCTCAAGTGATTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGGGAGCCACTACAGC
TGGCCAGCAGCTCTGTTTCTGATAGAGGTGGTTGGGGCTCTCATCCCTAGATCCTAACCTTTAGTATGCTGGA
ATTCTACTCTTCACTTACTGCATTGACTGTTGTTGATTAGTTATTATTGCAAAGCACTGCCACCGGCCTCAGGGA
GTTTATGTGTAATAGAATTAAAAATAATAGCTGTGTATAACACTTAGCTCAAGCCACGCATGTGTGAGGCATTTG
GTATGTATCTGAATTAATTCTCACTAAAATTAGCAAGGACTTGATAGCCTCTCCCCGCCTTTTCAATAAAGGA
TGAATGAAGTTG

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FIGURE 1037

AASASSTNLIHLSSKGHISPAKDTSLQQRTPAEMSPVLHFYVRPSGHEGAASGHTRRKLOQKLPQLQGVETELCY
NVNWTAEALPSAEETKKLMWLFGCPLLLDDVARESWLLPGSNDLLLEVGPRLNFSPTPTSTNIVSVCRATGLGPVD
RVETTRRYRLSFAHPPSAEVEAIALATLHDMTEQHFPHPHQSFSPESMPEPLNGPINILGEGRLALEKANQELG
LALDSWDLDFYTKRFQELQRNPSTVEAFDLAQSNSEHSRHWFFKGQLHVDGQKLVHSLFESIMSTQESSNPNNVL
KFCDNSSAIQGKEVRFLRPEDPTRPSRFQQQQGLRHVVFTAETHNFPTGVCPSGATTGTGGRIRDVQCTGRGAH
VVAGTAGYCFGNLHIPGYNLEWEDLSFYQPGNFARPLEVAIEASNGASDYGNKFGEPLVLAGFARSIGLQLPDGQR
REWIKPIMFSGGIGSMEADHISKEAPEPGMEVVKVGGPVYRIGVGGGAASSVQVQGDNTSDLDFGAVQRGDPEME
QKMNRVIRACVEAPKGNPICS LHDQAGGNGNVKELSDPAGAI IYTSRFQLGDP TLNALEIWGA EYQESNALLL
RSPNRDFLTHVSARERC PACFVGTITGDRRIVLVDDRECPVRRNGQGDAPPTPPPTPVDLELEWVLGKMPRKEFF
LQRKPPMLQPLALPPGLSVHQALERVRLRLPAVASKRYLTNKVDRSVGGLVAQQQC VGPLQTP LADVAVVALSHEE
LIGAATALGEQPVKSLDDPKVAARLAVAEALTNLVFALVTDLRDVKCSGNMWA AKLPGE GAALADACEAMVAVM
AALGVAVDGGKDSL SMAARVGTETVRAPGSLVISAYAVCPDITATVTPDLKHPEGRGHLLYVALSPGQHRLGGTA
LAQCFSQLGEHPPDLDPENLVRAFSITQGLLKDRLLCSGHDVSDGGLVTCLEMAFAGNCGLQVDVPVPRVDVL
SVLFAEEPGLVLEVQEPDLAQVLKRYRDAGLHCLLELGTGEAGPHAMVRVSVNGAVVLEEPVGE LRALWEETSQ
LDRLQAEPRCVAEEERGLRERMGPSYCLPPTFPKASVPREP GGSPRVAILREEGSNGDREMADAFHLAGFEVWD
VTMQDLCSGAIGLDTFRGVAFVGGFSYADVLGSAKGWAAAVTFHPRAGAELRRFRKRPDTFSLGVCNGCQLLALL
GWVGGDPNEDAAEMGPDSQPARPGLLL RHNLSGRYESRWASVRVGP GPALMLRGMEGAVLPVWSAHGEGYVAFSS
PELQAQIEARGLAPLHWADDDGNPTEQYPLNPNGSPGGVAGICSCDGRHLAVMPHPERAVRPWQWAWRPPFPDTL
TTSPWLQLSINARNWTLEGSC

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FIGURE 1038A

CCGCGCGCGGCGCCCGAGGCGGCGGCGGGGACGCGGGGACGCGAGGACGCGGCTTTGTGCAGGCGGGTTCGCGGG
GCGCCCAITGGCGGAGTGCAGGCCGGGGGGGCGCCCGCGGGGCGCCTGCCACCTCCCCGGGCGCGCCCTCGGC
GCCAAGGGCGCCCTGAAAGCCGAGTGGGGGAAGCGGTTGGCGGGGAGGTTCGCTCGGCCACGGGCGGGCGCGC
TATGACAGCGGCGGGGTTTCCAACGGAGACTGCAGCCTCGGCGTGTCCGGGGACGAAGCCCGGGCTAGCCCTACC
AGGGGACCCGCGGCGTTCGCTCGCCCCGACCCCGAGCGCGGTCTGTGTACCTCCCCGGGAGAGCAAGCCG
GGCGGCGCTGCCCGCCGGAGCAGCATCATCAAGGATGGTACAAAACAGAAGAGGGAACGGAAAAAGACAGTCTCA
TTCAGCAGCATGCCAACAGAGAAGAAGATCAGCAGTGCAAGTGATGTATTAAATCAATGGTTGAGGGTTTCAGAA
CTCAAAAAGGTTTCGCTCCAACCTAGAAATTTATCATAGGTACTTTTTACTGGATGCTGACATGCAGAGCCTAAGG
TGGGAGCCATCTAAGAAGGATTCTGAGAAAGCCAGATTGACATTAAATCCATCAAGGAAGTGAGAACAGGAAAA
AACACAGACATATTCCGCAGCAATGGCATTCTGACCAGATATCTGAAGATTGTGCGTTTTCCGTATATATGGA
GAGAATTATGAGTCACTGGATTGGTTGCCAATCCGCAGATGTTGCAACATCTGGGTTACAGGACTGCGGTAC
CTAATTTCTTATGAAAAACATACACTTGATATGTTAGAAAGTAGCCAAGATAACATGAGGACTTCTTGGGTTTCA
CAAATGTTTAGTGAAATTGATGTAGATAACCTTGGACATATAACTCTGTGTAATGCTGTGCAATGTATCAGAAAC
CTCAATCCTGGTTTAAAAACGAGCAAAATTGAGCTTAAGTTCAAAGAATTGCATAAATCAAAGGACAAAAGCTGGT
ACCGAGGTACAAAAGGAAGAATTTATTGAGGTTTTTCATGAGCTTTGTACTAGACCTGAAATTTATTTCTTTTA
GTTTCAGTTTTCAAGCAATAAAGAATTCCTTGATACCAAGGACCTTATGATGTTTTCTTGAGGCAGAACAGGGTGTG
GCACATATAAATGAGGAAATAAGCCTTGAAATTATTCACAAATATGAACCATCCAAAGAGGGTCAGGAAAAGGGC
TGGCTCTCCATAGACGGGTTCACTAATTACCTTATGTACCTGACTGTATATATTTCGATCCAGAACATAAGAAG
GTCTGTGAGGATATGAAGCAACCTCTGTCTCATTACTTTATAAACTCATCTCATAATACATACTTAATAGAGGAT
CAGTTCCGAGGTCCCTCCGACATCACAGGATATATTGAGCTCTTAAATGGGTTGCCGGAGTGTGAATTAGAT
GTATGGGATGGGCCGACAATGAACCTGTAATTTACACAGGCCACCCATGACCTCTCAGATAGTTTTCCGCAGT
GTCATTGATATTATTAACAAGTATGCATTCTTTGCTTCAGAGTATCCTCTTATCTGTGTTTAGAAAACCACTGT
TCCATTAAACAACAGAAGGTAATGGTTCAGCACATGAAGAACTTTTAGGAGACAAGCTCTATACAACATCACCC
AATGTTGAGGAATCTTATCTACCATCCCCAGATGTCTGAAAGGGGAAATACTAATTAAGCAAAGAAGCTGTCC
TCAAATTGCTCTGGGGTAGAAGGAGATGTTACTGACGAAGATGAAGGAGCAGAAATGTCTCAGAGGATGGGAAAA
GAGAACATGGAGCAACCCAATAATGTGCCTGTGAAGCGATTTTCAGCTTTGTAAAGAACTGTCTGAACTGGTCAGC
ATCTGCAAAATCAGTTCAGTTCAAAGAATTTTCAGGTGTCGTTTCAGGTTTCAGAAGTACTGGGAAGTCTGTTCCTT
AATGAAGTGCTTGCCAGCAAGTACGCCAATGAAATCCAGGGGACTTTGTAAATTACAACAAACGTTTTCTTGCT
AGGGTTTTTCCAGTCCAATGAGAATTGATTCCAGTAACATGAATCCTCAAGATTTTGGAAATGTGGTTGCCAA
ATTGTAGCCATGAATTTTCAGACACCAGGACTGATGATGGACCTGAATATTGGCTGGTTTAGGCAGAACGGAAAC
TGTGGCTATGTCTCCGGCCAGCCATCATGAGGGAGGAGGTCTCCTTCTTCAGCGCCAATACAAAAGACTCTGTC
CCAGGGGTCTCACCTCAACTTCTTCACATTAAATCATCAGTGGGCAGAACTTTCCAAGCCCAAGGATCAGGT
GCCAAAGGTGATGTGGTAGATCCTTATGTCTATGTTGAAATCCATGGAATCCCTGCTGATTGTGCAGAACAAAGG
ACAAAAACAGTGCACCAGAATGGAGACGCTCCCATTTTTGATGAAAGCTTTGAATTTCAAATCAACCTGCCTGAA
CTGGCCATGGTGCGCTTTGTAGTGCTGGATGATGACTACATTGGGGATGAATTCATCGGCCAGTACACAATTCCC
TTTGAATGTTTACAGACGGGCTACCGCCATGTCCCCCTGCAGTCTTAACITGGAGAGGTCTTGCACATGCTTCT
TTATTTGTCCACGTGGCTATTACTAACCGAAGAGGAGGAGGAAAGCCTCATAAAAGGGGCTTTCTGTGAGAAAA
GGGAAGAAATCCAGGGAATATGCATCTTTGAGAACACTGTGGATTAAACCGTGGATGAGGTATTCAAGAATGCC
CAGCCCCCTATACGGGATGCCACAGATCTGAGAGAAAACATGCAGAAATGCGGTGGTGTATTCAAGGAGCTGTGT
GGCCTCTCCTCTGTGGCCAATCTCATGCAAGTGTGTTGGCGGTGTCTCCCCGCTTTCTGGGGCCCGATAACACA
CCCCTAGTGGTCTTAAATCTCAGCGAGCAGTACCCCAATGGAGCTGCAGGGAATGTGCCGGAGGTTCTGAAG
AAGATCGTAACAATTATGACATGATGATTAGTCCCTCAAGGCGTTGATTGAAAAATGCAGATGCTGTATATGAA
AAGATCGTACATTGTGAGAAGGCAGCCATGGAATTCATGAACACTTGCACAGCATAGGCACCAAGGAAGGTTTG
AAGGAAAAGAAACTACAAAAGCAGTGGAGAGCTTTACCTGGAATATTACCATCTTAAAGGGACAAAGCAGATCTT
TTGAAATATGCTAAGAATGAGACATTGGAGAACCTGAAACAAATCCATTTTGCTGCTGTTTCATGTGGACTGAAT
AAACCAGGCACCGAAAATGCTGATGTCCAGAAGCCACGCGGAGCTTGGAAGTCATACCCGAAAAAGCAAACGAT
GAACTGGAGAAATGAGGAACTTACAATAAACCATTTATGGAGTTTATAACTCTAGGACCAATTGTAGTCAGATGG
GACATTTGCTTTGCACTCACTAATGAGAATAATATTCGGGATTTTAAAGCACAACCTGGAATAGCTAATTACAGTC

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FIGURE 1038B

TATTAAACTGTGAATGTATGTAGCAATCCTGCGTGTGAAGGCAAATAAACTCTTTAACAGGCAATTATATTGCT
GGCCAAAATATGCTATATTTGTATACAAAGACATTCTAACTCAGTTCCAGTATGAAGAAAGATTATTCACTCTAG
CTCCACTGAGAAACATTTTCCTAAGTGAAAACAATTTCTTAAGATGGAAATGGATTGGATTGTCAAATTATTATT
TATTGGAGAAAAAACCTGATCTACACATTTTTACTTATATGGGGTTGCCAGAGTCTCTGGGTTCTAGATGATTT
TGGTGGCATGCTTGCTGAGCCATAATTACTAAAGAGAATGTAAGTGGACGGGTTCCCTGAATCCCCGGGGTCCTT
GGAGAGCCATCGAGGAGAATGTGCAATTGGACTGAAGCTCCCTGGCTGAAGATACATGCCGAGTCAGCACATGGG
TAGAGATGATGTAAAAGCAGCCAATCTGGAACAATACATTGTAAATAGTTTTTCATTGTATGAAGTAGTGTTC
CATTAAAAAGATGTTTTATGAT

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FIGURE 1039

PRAAARGGGDAGTRGRGFVQAGRGAPMAECGRGGAAGGALPTSPGPALGAKGALKAGVGE GGGGGGRLGHGRAR
YDSGGVSNDCSLGVSGDEARASPTRGPRGVALAPTPSAVVCTLPRESKPGGLPRRSSIIKDGTKQKRERKKTIVS
FSSMPTEKKISSASDCINSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSKKDSEKAKIDIKSIKEVRTGK
NTDIFRSNGISDQISEDCAFSVIYGENYESLDLVANSADVANIWVTGLRYLISYGKHTLDMLESSQDNMRTSWVS
QMFSEIDVDNLGHIITLCNAVQCIRNLNPGKTSKIELKFELHKS KDKAGTEVTKEEFIEVFHELCTRPEIYFLL
VQFSSNKEFLDTKDLMMFLEAEQGVAHINEEISLEIIHKYEPSKEGQEKGWLSIDGFTNYLMSPDCYIFDPEHKK
VCQDMKQPLSHYFINSSHNTYLIEDQFRGPSDITGYIRALKMGCRSVELDVWDGPDNEPVIYTGHTMTSQIVFRS
VIDIINKYAFFASEYPLIILCLENHCSIKQQKVMVQHMKLLGDKLYTTSPNVEESYLPSPDVLKGKILIKAKKLS
SNCSGVEGDVIDEDEGAEMSQRMGKENMEQPNNVVKRFQLCKELSELVSICKSVQFKEFQVSFQVQKYWEVCSF
NEVLASKYANENPGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCCQIVAMNFQTPGLMMDLNIGWFRQNGN
CGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIISGQNFPPKPKGSGAKGDVVDYVYVEIHGIPADCAEQR
TKTVHQNGDAPIFDESFEFQINLPELAMVRVFLDDDYIGDEFIGQYTIPFECLQTYRHHVPLQSLTGEVLAHAS
LFVHVAITNRRGGGKPHKRGLSVRKGKKSREYASLRTLWIKTVDEVFKNAQPPIRDATDLRENMQNAVVSFKELC
GLSSVANLMQCM LAVSPRFLGPDNTPLVVLNLSEQYPTMELQGIVPEVLKKIVTTYDMMIQSLKALIENADAVYE
KIVHCQKAAMEFHEHLHSIGTKEGLKERKLQKAVESFTWNITILKGQADLLKYAKNETLENLKQIHFAAVSCGLN
KPGTENADVQKPRRSLEVIPEKANDETGE

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FIGURE 1040

CTGCCCCCTTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTTCAGACTGAGCGTGCCTACCAAAAGCAGCCG
ACCATCTTTCAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAAC
ATCGGTCTGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGT
AATGTGTCCATTTCGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGC
CGAGACTATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCC
CCCTGCTTCAGGGACGTCCAGATCGGTGACATCGTACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCGC
TTCAACGTGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCC
CGCTCCCCACAATGAAATAAAGTTATTTTCTCATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1041

MADIQTERAYQKQPTIFQNKRVLLGETGKEKLPRYYKNIGLGFKTPKEAIEGTYIDKKCPFTGNVSIRGRILSG
VVTMKMQRTIVIRRDYLYIRKYNRFEKRHKNMSVHLSPCFRDVQIGDIVTVGECRPLSKTVRFNVLKVTKAAG
TKKQFQKF

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FIGURE 1042A

GCCACCGCAGGGCTGCTCCAAGTGAGAATCGTGAGGGTGGCCAAGTCCAGTTTGGACCTCTGACCCTTGGGCAGC
ACCTCCCGACAGCCGGCTCGGGACCCAACTCTGCGAGCCAGGTGAAAATGAGTTCTTCAGTAAGAAGAAAAGGCA
AGCCAGGCAAAGGAGGTGGAAAAGGGTCTTCTAGAGGAGGAAGAGGAGGCAGGAGTCACGCCAGTAAATCTCATG
GGAGTGGTGGCGGTGGCGGTGGTGGTGGTGGAGGTGGCGGCAACAGAAAGGCCTCCAGTAGAATATGGGATG
ATGGAGATGACTTTTGTATCTTCAGTGAATCAAGGCGCCCTTCCAGACCTAGCAACAGTAACATAAGCAAAGGAG
AGTCACGCCCCAAAATGGAAACCCAAAGCCAAAGTACCCCTTCAGACTCTACATATGACTTCTGAGAATCAAGAGA
AAGTGAAAGCTCTTCTCCGAGACCTGCAAGAACAAGATGCTGATGCTGGATCTGAAAGAGGCCTTTCTGGGGAGG
AGGAAGATGATGAGCCTGATTGCTGTAACGATGAGCGGTACTGGCCAGCTGGACAGGAACCTTCCCTCGTTCCCG
ACTTGGATCCTTTGGAATATGCTGGCTTAGCCTCAGTGGAGCCTTATGTTCCAGAATTTACAGTCTCCCCATTG
CAGTGCAAAAACCTTCCAGGTATGGTTTCAATACTGAACGCTGTCAAGCGGTCTGAGGATGTGTGATGGAGATG
TGGGAGCATCACTAGAGCATCTCCTTACCCAGTGTTTTTTCAGAGACATTTGGAGAGAGGATGAAGATCTCTGAGG
CAGTCAACCAGATAAGCTTGGATGAGTGTATGGAACAGCGACAGGAAGAGGCATTGCTCTCAAGTCCATCTGTG
GAGAAAAATTTATAGAAAAGAAATTCAGAACAGAGTCTGGACCATTGGGTTAGAACTGGAGTATCTGACAAGTAGAT
TCCGCAAATCCAAGCCAAAAGAAAGTACCAAAAATGTACAAGAGAATTCACTTGAAATCTGTAAATTTTACCTCA
AAGGAAATTTGTAATTTGGATCAAAATGCAGATTCAAACATGAAGTGCCCCCAAATCAAATTTGTTGGAAGAATAG
AAAGAAGTGTAGATGATTCTCATCTTAATGCTATTGAAGATGCATCTTTTTTTATATGAACCTGAAATTCGATTT
TCTAAAGACCACAAATATCCCTACCAAGCTCCGCTCGTGGCATTTTATTCACCAATGAGAACCTACCTCTGGCT
TGTCGTTTACATATTTCTGAGTTTCTTTATGACAAGGCCTTGACATTTGCGGAACTTCGGAACCTGTCGTATAT
TCTTTGATAACCCCTTTAGAGGAAGAGTCGGAATAGTCAAGTTACTAACGAATACCCACCACAAGTATAGTGAC
CCTCTGTGAACCTTTCTGCCAGTACCCTCTAGGACCAGAATAAATAATCCTGCCTGTCATAAAACAGTGATTCCA
AATAATTTCTTTTGTCTAATCAAATTCAGAAGTTGAAAAAGCATCAGAATCTGAGGAGTCAGATGAGGATGAC
GGTCTGCACCTGTTATAGTAGAGAATGAAAGCTATGTGAACCTTAAGAAAAAGATTTCGAAAAGATATGACTGG
CAGGCAAAGTCAGTACATGCTGAAAATGGTAAAATCTGCAAGCAGTTCCGAATGAAACAGGCTTCCAGACAGTTC
CAGTCCATTCTGCAAGAGAGGCAATCACTCCCTGCTTGGGAAGAAAGAGAAACCATTCTTAACCTTATTGCGTAAG
CACCAGGTGGTTGTCATAAGTGGTATGACTGGATGTGGGAAAACACACAAATTCCGCAGTTTATTCTGGATGAT
TCTCTGAGTGGACCACCTGAGAAGGTAGCCAACATCATCTGTACCCAACCCCGACGAATCTCTGCAATCTCTGTT
GCTGAACGCGTTGCTAAAGAAAGAGCAGAGAGGGTGGGTCTGACCGTGGGATACCAGATTGCGTTAGAAAAGTGTC
AAGTCTCAGCCACCAGACTGTTTACTGCAACACGGGAGTGCTGCTGAGAAGGCTAGAAGGAGATACAGCTCTA
CAAGGAGTTTCCCATATCATTGTTGATGAAGTTTCATGAGAGGACAGAAGAAAGTGACTTCTTGCTGCTAGTTTTG
AAGGACATTGTATCGCAGAGGCCAGGTCTTCAAGTTATTTTAAATGAGTGCAACTCTAAACGCTGAGCTTTTTTCA
GACTATTTTAAATTCCTGCCCCGTTATTACTATACAGGTGCTACATTTCTGTTGATCAATTTTTTTTGGAAAGAT
GCAATTGCTGTGACAAGGTATGTATTACAGGATGGGAGCCCATATATGCGGTCCATGAAACAGATTTCAAAGGAA
AAGCTTAAAGCAAGGCGGAACAGAAGTGCATTTGAAGAAGTGGAAGAAGACCTAAGGCTCTCCCTTCACCTCCAG
GATCAGGATTCTGTCAAAGATGCAGTGCCAGATCAACAGTTAGATTTTAAGCAGCTCCTGGCCCGCTATAAAGGG
GTTAGCAAGTCAGTCATCAAAACAATGTCCATCATGGATTTTGAAGAAGTGAATCTTGAATTAATAGAGGCCTTA
TTAGAGTGGATTGTGGATGGAAAGCACTCCTACCCTCCAGGTGCTATACTTGTATTTTACCAGGACTAGCAGAA
ATCAAAATGCTTTATGAACAGCTACAGTCTAATCTCTTTTCAACAACAGACGTAGTAATCGATGTGTTATTAC
CCACTTCATTATCTTTATCCAGTGAAGAGCAGCAGGCTGTGTTTGTAAAACCTCCTGCAGGAGTAACATAAGATT
ATAATTTCCACCAACATTGCTGAGACATCCATAACCATCGATGATGTTGTCTATGTTATCGATTCTGGGAAAATG
AAAGAAAAGAGATATGATGCCAGCAAAGGGATGGAAAGTCTAGAGGACACCTTTGTATCTCAAGCTAATGCTCTA
CAAAGGAAAGGCCGAGCAGGCCGTGTTGCATCTGGGGTCTGCTTCCATTTATTCACTAGCCATCACTACAATCAC
CAGCTTTTAAAACAACAGCTACCAGAAATACAAAGAGTGCCATTGGAACAGCTGTGTCTAAGAATTAATAATTTTA
GAGATGTTTAGTGCTCATAATCTCCAGTCTGTGTTCTCTCGGCTCATTGAACCTCCACACACCGATTCTCTCGT
GCCTCAAAAATACGATTACGAGACTTAGGAGCATTAACTCCAGATGAAAGATTGACCCCTCTTGGGTATCATTG
GCCTCTCTGCCCCGTGGATGTGAGAATTGGCAAATAATGTGTTTGGGTCTATCTTCCGCTGTTTGGATCCTGCT
CTCACCATTGCTGCCAGTTTGGCTTTTAAGTCTCCGTTTGTATCTCCCTGGGATAAAAAAGAAGAAGCTAACAG
AAAAAGCTGGAATTTGCATTGCAACAGTGATTATCTGGCCCTTCTACAAGCGTATAAGGGATGGCAGCTAAGT
ACAAAAGAAGGCGTGCTGCAAGTTATAATTACTGCAGACAAAACCTTCTGTCTGGAAGAGTTCTGCAGGAAATG

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FIGURE 1042B

GCCAGCCTCAAACGACAATTCACGGAAGTGTATCGGATATAGGGTTTGCAAGGGAAGGGCTCAGAGCAAGGGAA
ATTGAGAAAAGGGCCCAAGGAGGAGATGGTGTCTTAGATGCCACAGGAGAAGAGGCCAACTCAAATGCTGAGAAC
CCCAAGCTGATATCAGCAATGCTGTGTGCTGCTTTGTATCCAAATGTAGTGCAGGTGAAAAGCCCAGAAGGAAAA
TTTCAGAAGACCAGTACTGGAGCTGTCAGAATGCAACCAAAATCAGCTGAGTTGAAGTTTGTACCAAGAACGAT
GGATATGTACACATTACCCCTTCATCAGTGAACATCAGGTGAGACACTTTGACAGCCCCCTACCTGTTGTACCAC
GAGAAGATAAAAACTAGTCGAGTATTCATCCGAGACTGCAGCATGGTGTCTGTGTACCCGCTGGTCTTGTGTTGGA
GGAGGCCAAGTGAATGTGCAGCTTCAAAGAGGAGAGTTCGTTGTCTCCCTGGATGATGGTTGGATCCGTTTTGTA
GCTGCTTCCCATCAGGTGGCTGAACTGGTAAAGGAGCTTCGTTGTGAACCTTGATCAGCTTCTCCAGGATAAAATT
AAAAACCAAGCATTGATCTGTGTACGTGTCCTCGAGGATCCCGGATCATCAGCACAATTGTGAAACTTGTCAAC
ACACAATTAAAAAGCAGTCTTAGAGAGTGCTTGCTACTCACCTGCTTCTAGCTCACCTGGGAAATAACAGCAGAAC
CTCTACCTCGAACTAAAGACCTATTGGGGCTGGCCCTGGTGGAGGAGCCCAGGGCATGAAGCCCAAGGCAGCTGA
GGCAGTGTATATACCCTTAGGGCCATTCTAACAAAGCCTTGGCCACTCCCAGCACAATTTGGAGTGTCAAGGGT
GAGAGCCTAAAACCCAGCTTGCCTGTCTTTGTCTCTGTGATTGTTCTGGAGTGAATTAAGTTCACCTGATAACTC
AAAAGTGAATGTATAATAACAATTCTGTTTTAATCTGTGATTCTTTTCTCCTACTTTTTACTGGGGTGAGAGGG
GCATGAAGAGAAATACGCCTTTTTTTTTTCTTTTCCTGTGCGCAAGGCTCGACTGAGAGAAGTCAGAACAGAGA
AGGGGAAAAAAAACCCAAAATTATGTGAACAAGCAAAATTAATAATTTCATTTTAGGCTATTGGCTACTGAGTAAA
CTTGACTTGTGAGGGGTTTTTATTTTTACTCATTAAAAGTCAACTTAAACCAAAAAATCTATGTCGGGTGCGGA
GAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATC

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FIGURE 1043

HRRAAPSENREGGQVQFGPLTLGQHLPTAGSGPNSASQVKMSSSVRRKGKPGKGGGKSSRGGRGGRSHASKSHG
SGGGGGGGGGGGGNRKASSRIWDDGDDFCIFSESRRPSRPSNSNISKGESRPKWPKAKVPLQTLHMTSENQEK
VKALLRDLQEADADAGSERGLSGEEEDDEPDCCNDERYWPAGQEPSLVPDLDPLEYAGLASVEPYVPEFTVSPFA
VQKLSRYGFNTERCQAVLRMCDGDVGASLEHLLTQCFSETFGERMKISEAVNQISLDECMEQRQEEAFALKSICG
EKFIERIQRVWTIGLELEYLTSRFRKSKPKESTKNVQENSLEICKFYLKGNCKFGSKCRFKHEVPPNQIVGRIE
RSVDMILILMLLKMHLFLYELIRFSKDHKYPYQAPLVAFYSTNENLPLACRLHISEFLYDKALTFAETSEPVVY
SLITLLEEESEIVKLLTNTHHKYSDPPVNFLPVPSTRINNPACHKTVIPNNSFVSNQIPEVEKASESEESDEDD
GPAPVIVENESYVNLKKKISKRYDWQAKSVHAENGKICKQFRMKQASRQFQSILQERQSLPAWEERETILNLLRK
HQVVVISGMTGCGKTTQIPQFILDLSLGPPEKVANI ICTQPRRISAI SVAERVAKERAERVGLTVGYQIRLESV
KSSATRLLYCTTGVLRLRLEGDTALQGVSHIIVDEVHERTEESDFLLVLKDIVSQRPGLQVILMSATLNAELFS
DYFNSCPVITIPGRTFPVDQFFLEDAIVTRYVLQDGSPLYMRSMKQISKEKLKARRNRTAFEEVEEDLRLSLHLQ
DQDSVKDAVPDQQLDFKQLLARYKGVSKSVIKTMSIMDFEKNLELIEALLEWIVDGKHSYPPGAILVFLPGLAE
IKMLYEQLSNSLNFNNRRSNRCVIHPLHSSLSSEEQQAVFVKPPAGVTKIIISTNIAETSITIDDVVYVIDSGKM
KEKRYDASKGMESLEDTFVSQANALQRKGRAGRVASGVCFHLFTSHHYNHQLLKQQLPEIQRPLEQLCLRIKIL
EMFSAHNLQSVFSRLIEPPHTDSL RASKIRLRDLGALT PDERLTPLGYHLASLPVDVRIGKMLLFGSIFRCLDPA
LTIAASLAFKSPFVSPWDKKEEANQKKLEFAFANS DY LALLQAYKGWQLSTKEGV RASYN YCRQNF LSGRVLQEM
ASLKRQFTELLSDIGFAREGLRAREIEKRAQGGDGVLDATGEEANSNAENPKLISAMLCALYPNVVQVKSPEGK
FQKTSTGAVRMQPKSAELKFVTKNDGYVHIHPSSVNYQVRHFDSPYLLYHEKIKTSRVFIRDCSMVSVYPLVLF
GGQVNVQLQRGEFVVSLLDGGWIRFVAASHQVAELVKELRCELDQLLDQKIKNPSIDLCTCPRGSRISTIVKLVT
TQ

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FIGURE 1044A

GCGTGACCCCTCGCCTGATCCAGTTGTTAGAGTTGGAAGCTTGGCAGTTGGCCTCCCTTCTTCCCATGGAGGACGG
GGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCAGAGCCTCCCTTGCCAGTGTGACAGAGGGCCC
AGCTGCACAGACCACTGCTGAGCCCAGCAGGTCGTTTTCTCAGCCCACAGACACCTGAGCAGAAGGAATGGGCT
TTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGCTCCTATTGTCTATCATCACTGGCTGC
CCAGAATATTGTACAAGTAACTGCACTGCCCTGCTGCCCTGAGCACACGGACCCGTCGGAACCGCGGGGCAG
TGTGTCTGTGCTCCCTGCTGCGGGGACTGTCTCAGGGTGGTCTCACCTCTGCTTCCGGCCCTGTGTGCAA
CCCTAACAAGGCCATCTTCACGGTGGATGCCAAGACCACAGAGATCCTCGTTGCTAACGACAAAGCTTGCGGGCT
CCTGGGGTACAGCAGCCAGGACCTGATTGGCCAGAAGCTCACGCAGTTCTTTCTGAGGTGAGATTCTGATGTGGT
GGAGGCCCTCAGCGAGGAGCACATGGAGGCCGACGGCCACGCTGCGGTGGTGTGTTGGCACGGTGGTGGACATCAT
CACCCGTAGTGGGGAGAAGATTCCAGTGTCTGTGTGGATGAAGAGGATGCGGCAGGAGCGCCGCTATGCTGCGT
GGTGGTCTGGAGCCCGTGGAGAGGGTCTCGACCTGGGTGCTTTCCAGAGCGATGGCACCGTCACGTCATGTGA
CAGTCTCTTTGCTCATCTTCACGGGTACGTGTCTGGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCC
TTCTGTGCAGCTCCCTCCTTCTGGCCAGCACATCCCAAAGAATCTCAAGATTAGAGGTCTGTGGAAGAGCCAG
GGACGGTACCACCTTCCCTCTGAGCTTAAAGCTGAAATCCCAACCCAGCAGCGAGGAGGCGACCACCGGTGAGGC
GGCCCTGTGAGCGGCTACCGGGCATCTGTCTGGGTGTCTGCACCATCAGTGGCCTCATCACCTCCTGCCGGA
TGGGACCATCCACGGCATCAACCACAGCTTCGCGCTGACACTGTTTGGTTACGGAAGACGGAGCTCCTGGGCAA
GAATATCACTTTCTGATTCTGTTTCTACAGCTACATGGACCTTGGTACAACAGCTCATTACAGCTCCCAGA
CCTGGCCAGCTGCCTGGACGTGCGCAATGAGAGTGGGTGTGGGGAGAGAACCTTGGACCCGTGGCAGGGCCAGGA
CCCAGCTGAGGGGGGCCAGGATCCAAGGATTAATGTCGTGCTTGTGTTGGCCACGTTGTGCCCCGAGATGAGAT
CCGGAAGCTGATGGAAGCCAAGACATCTTCACCGGACTCAGACTGAGCTGATTGCTGGAGGCCAGCTCCTTTC
CTGCTCTCACCTCAGCCTGCTCCAGGGGTGGACAATGTCCAGAAAGGAAGCCTGCCAGTGCACGGTGAACAGGC
GCTGCCCAAGGACCAGCAAATCACTGCCTTGGGGAGAGAGGAACCTGTGGCAATAGAGAGCCCCGGACAGGATCT
TCTGGGAGAAAGCAGGTCTGAACAGTGGATGTGAAGCCATTTGCTTCTGCGAAGATTCTGAAGCTCCAGTCCC
AGCTGAGGATGGGGGAGTGTGCTGGCATGTGTGGCTGTGTGAGAAGGCCAGCTAGAGCGGATGGGAGTCAG
TGGTCCCAGCGTTACAGACCTTTGGGCTGGGGCTGCCGTGGCCAAGCCCCAGGCCAAGGGTCAGCTGGCGGGGG
CAGCTCCTGATGCACTGCCCTTGCTATGGGAGTGAATGGGGCTTGTGGTGGCGAAGGCAGGACTTGGCCCCCAG
CCCCCTGGGATGGCAGGCCTCTCGTTTGGGACACCTACTCTAGATGAGCCGTGGCTGGGAGTGGAAAACGACCG
AGAAGAGCTGCAGACCTGCTTGATTAAAGGAGCAGCTGTCCAGTTGAGCCTTGCGGGAGCCCTGGATGTCCCCCA
CGCCGAACCTCGTTCCGACAGAGTGGCAGGCTGTACCGCTCCTATGTCTCCTGCGATCTGGGAGGCAGAGACCT
GTGCGGTGGCTGCACGGGCAGCTCCTCAGCCTGCTATGCCTTGGCCACGGACCTCCCTGGGGGCCTGGAAGCAGT
GGAGGCCCAGGAGGTGATGTGAATTCGTTTTCTTGAACCTCAAGGAACCTTTTTTCAGTGACCAGACAGACCA
AACGTCATCAAATTGTTCTGTGCTACGCTGTAACCTCAGAGAGACACCTCTTCTTGGCAGTGGGCTCCGATCC
AGATGTAGGCAGTCTCCAGGAACAGGGGTGCTGTGCTTGGATGACAGGGAGCTGTACTACTGACCGGCACCTG
TGTGACCTTGGCCAAGGCCGACGGTTCCGGGAGAGCTGTGTGGGACATGATCCAACGAACCGCTTGAGGTTTG
TTTGGTGTCTCTGAGCATTATGCAGCAAGCGACAGAGAAAGCCCAGGACACGTTCTTCCATGTTGGATGCTGG
CCCTGAGGACACGTGCCCATCAGCAGAGGAGCCAAGGCTGAACGTCACGTCACCTCCACGCCCGTGTGCTGAT
GCGCGGGGCTGCTGGCCTGCAGCGGGAGATCCAGGAGGGTGCCTACTCCGGGAGCTGTACCATCGAGACGGCTT
ACGGCTGAGTATACAGTTTGAAGGTGAGGCGGGTGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGTGCTGGT
GAAAGACCTCCTCCACAGCCAACGCGACTCAGCCGCCAGGACCCGCTGTCTTGGCAGCCTGCCCGGCTCCAC
CCACTCTACCGCTGCTGAGCTCACCGGACCCAGCCTGGTGAAGTGTCTCAGAGCCAGACCCTGGTTTGAAGAGCC
CCCCAAGGCTGTGGAACCTGGAGGGGTGGCGGCCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCC
GCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGACTGCTGTGGACAAGGAAAAAACAAGGAGGTGGTGGTGAAGTT
TATTAAGAAGGAGAAGGTCTTGGAGGATTGTGAGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGC
AATTCATATCCAGGGTGGAGCACGCCAATATCATCAAGTATTGGATATATTTGAAAACCAAGGGTCTTCCAGCT
TGTGATGGAGAAGCACGGCTCCGGCCTAGACCTCTTCGCTTTCATCGACCGCCACCCAGGCTGGATGAGCCCT
GGCGAGCTACATCTTCCGACAAGTGAGAGCAGGCCAGACCGCTCTAGTGTGACAGTGGGATACCTGCGCTTGA
GGACATCATCCACCGTGACATCAAGGATGAGAACATCGTGATCGCTGAGGACTTCACAATCAAGCTGATAGACTT
TGGCTCGGCCGCTACTTGAAGGGGAAAATTATTTTATACTTTTTGTGGGACCATCGAGTACTGTGCACCGGA

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FIGURE 1044B

AGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGGGAGTCACTCTGTACACGCTGGT
CTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATACACCCGCCATACCTGGTGTCCAA
AGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCACCACCTTGGAGAAGCTGGTGAC
AGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGGTGTGTGAGTAAACAAGCCAGA
AAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTGATGTGGCCAGGCTCAGGAGCT
TTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATCCCGGGGATCCCCGTCTGCTGAC
CAGCTAAACACCAATTTTTTCTGCTTTTCTCCACTTGGTTTGGAAAATCACACAGTTTTCAGGCTCCATCTGTT
TGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAACTCATGTGCAGGTTTGATAAACACCAGAAC
AGAAGACAGTGATGCTGTATTATTTTAGATTTATTACATAGATTTGGAATTCACTTTTTTCATGACCTAGAAAAA
AACATTCCAGTGTTCAACTGTTTTATATTATTAAAGGGCTTTTAATTTGTG

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FIGURE 1045

TTCATATTAAAAAATAGCTGGTAAATCTTTCTAGGTAGTAACTTATCCAAACAATACTTTGAGTATCATATTTT
GTGAATGACTTGCTTAAACTGGGAACTGAATATTCTTTTAAATCATATAATTCCTGTATTAAATGTGAAACAC
ACAGTCTCCAAAGTCACCTGATTCTCTGTGGAAAATGAAAGGCATTGAAGGAAACCAGATACATTAATACTTAGT
TTTGGTTGAAAGTCAACATTACTGTACTTAGAAGGGGCTTGGTTTATTTTATAGATATTTAAGCTATCATTAATT
TTAGACCAATGGCTAATAATAAGAGAGATTTTGGTTGCTCATTATGGAGAGACAAAGAACAGCATGGCATAAA
CAAACATCCCAGAAATAAATGAAAAGTTTAAAGTGATAAAATTGTGTTTCTATGAACCACTGTTGTACATGAAC
CAACATTGTGTTTCTTAGCTCTGACCTGTACAGTGAGGTACCTGTCAGGACCCCTAGTCTTGGCACTGGAAATGA
CAAAGTTCTCCTATTACTAAATTCTCATGCCTTCCTTTCTGACTTAGTAGATTGAAATGGTAGGTACTAATGA
TTTATGTTTGATAAACTTAAGTTCTGCTGATATCCTGTTACTGGTAATTCTGGTACCAAAATTTCAAACGGTTTG
ATTATTAGTAGCATTTTGGAGTACCTAGGTGCATATAATACAGTTAGCAGACCCCTTACAGAGTCAAAAGAGATTTT
GGAATCTGGTGATACTGTTGTTTATTACACTAGCCTATTACATTTTCTTTCTTTATAATACTGTTTATGTGAGT
TTCATTGAAAATCGTGGCTCTATTGCTTTATTCTAGGTTCCACAACCTCTTTTGTAACACCTTAATTTCTCTC
TTAGGTATTTTCTGTTAAATAAGATATCAAAGCATCAATCACAAGACAGAGAAAACGTATTAGGAAAACTTG
TATTAGTATATTCTAACTGAAATGGAAAACTCATTATTATATTTTAAATAAACTCCCAATGATCTTG
CTAAATTATCCCCTATTTAGAAGTAGAAAATAAGAGAAGAGTGCTTTCAAGGAAATTTGTCATATTCTCCCTTC
TATCTAGAAGTTGACAATGAATTGCAATAAACTAAGAAATACTGAATGCTGAAAAATACCATGAATTAATGTT
ATGGCTTCTTTATTTTGTATATCCATTCCCAAAAATTGAATTTAAGATTATTAATGAAAATTCTATATTAAGT
AATAATGCTTGTATTAGTAATGGGCAAAGAAGTCTTTCTTTGTTACATTAACCGTTAGTAAAGATGTACTTTGA
CATTTCTGATGTAAAACCTATATGTAATATTGTAATTTAAATATGATTGGACAGCTGTTAAGTTTGGGGAGGG
AAGCAGATGCCAGCGTTCTCTGCTGAAAAGACAAGATGGCGCTTGACGGACCACAGCAGATGGAGCTGGAGGAGG
AAAAGGCAGGCAGTGGACTCTGCCAGTATTATCTGTCCAAGATTGAAGAACTCCAGGGTCAACTGCAATATAAAT
TGGATGGGGGAAAGCCACAAGGAACAGTTCTGAACCTCCAGGTGCATTTGCAGCTGATTTTGAATGATAAGACCCA
AAACCTCTGGAGGCGGCAGGTGCACGGGAATGAACATAAATGTTAAAGTGTGCCTATTACAGGAGGAGCTACAGCT
GCTGCAGGAATAGGACTCCTGTGTGTCAGGGAAGTAGTCCAGGCCATGGGTAAGAAGAAAGTGTGGTCAAGGTGCA
TCTCAAGGACAAGTTTGTCTAGATGTGGACAAAAATATCAGCATCAGTGATGTGACACCCAGTTCCTTGGTGGT
TCTAAGAAATGACAGCTACACTTTGCACAAGATCCTACCCAACAAGGTGGACTCATTGGTGTCACTGATGATGGT
GAAGAAAGTACCAGATTACGCTTATGAAATGATTGGTAGACTGGATAGGCAGATCAAGAAGATCAAGAAGTGAT
CGACCTGCCTGCTAAGCATCCCAGCTCTTCAAAGCACTGGGCATTGCACAGCCCAAGGGAATGCTGCTTGGAG
AGACTGTTGGCTGGGCTCTGGCTCATCATAGGGACTGTGTACCTTTATTCTGTCTCTGGCTCTCAATTGGTAC
AGAAATTCATTGGGGAATTTCTGTGATGGCAGAGAAAATGCTCATCTGTCTCATCTTCATGGATGAAATTGACTCTT
TTGGCTCCTCAGAGCTGGAGGGGATGCTGGAGGGAACAGTGAAGTGCAGCAGATGATGCTTCGAGGGTGGCTTT
GAGGCCACCAAGAGTATCACGGTTTATCACGGCTGCTAATACGATTGATATCCTGGACTCGGCCTGCTTTGCC
AGGGCACATTGACAGAAAAATTGAATTTCCCAACCTGCAATGAGTAGGCCTGGCTGGTCACTTTGAAGATTCAATC
TCAGAAATGAACCTGACCCAGGGGATCAACCTGAGAAAAATTGCTGAGCTTATGCCAGGAGCATCAGGCTGAAGT
GAAGGGCATGTGCACAGAAACCGGCATGTATGCCTGAGTAGCGAGTCCATGTCACTCAGAAGGACTTTGAGGTA
GTCCAAAGTCTATCTCATGCCAAAGGACAGTGAGGAAAAACATGTCCATCAAGAACTATGGAATTGAGGGCAC
ATCCTTTGTGTGTATCCCTACAATAAACTCAGTGGGACAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 1046

MGKKKVLVKVHLKDKFVIDVDKNISISDVTSSLVLRNDSYTLHKILPNKVDSLVSMMVKKVPDSAYEMIGRL
DRQIKKIKEVIDLPAKHPELFKALGIAQPKGMLLGRDCWPGLWLIIGTVYLYSCLWL

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FIGURE 1047

GGCGCCATTTTGCTGGAGCCTGCGACCGAGTGGGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTCTCTTC
CCCACGGTCCAGTCAGCGGGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGCTCTTATTTAGTTCTGGGGA
GCGCCTCGTCGACATGAGTGTGTGGAGGAAAACAACCTTCGAGGGCAGAGTGAGTACAAAGCCGCGGGAGCCGTC
TAGGCGGGCGGCCAAATGCTCGGGGTTTACGGGAACAAGCGGGTCGGGCGGGGTTCGGGTAGTCCCGCGAGGA
GCAACCTCTGGAGCCATCGCGATTGATTCCTCCCATCCCAAGATGGCTTCTGGGTTCCTCTCCCAACAC
CACGGATAACACCCCTCCCCCTTTTGGAGGCTGACTGATACCTGGACTTCTGGGTCTCTCTCCCTCCCCGCC
CCGATTGCTTCTCTCTTCTCCCCACCCCTGAGGCTTCTTATGTCTGCTCCGAGGTGTGGGTCCCGTCGCGG
TTGGGCGGGAGGAGGCGGCAGGGAGCTCCCTCCGTCGGATAGTGGTAGGTGCTTCTGCGGTGGCATTCTCG
CGACCCCGAGCATCGTAGAGGGTCTCGGGATCGAAAGTGCGCGGGGCTGCTTTCCGGGCGGGGAGAAGCTGGCGT
GGGACTAGCTGGGGCTGTGTCTCTTGGCTCTCTATTTAGTGAGCGGCCGCTCTCTGTTGGAACCGCGGCG
TTGCGTCTAAAAGGCGAAAGCCTTGAGGTTGAAGTGGGACGAGCCTAATGAAGTGGTTAGTCAACGACCGCAC
CGACCCCTAAGCGTCTTAAGACGAGAGCTGTGAGGGGAAACTACGCAAGGAGCCCTTTCCCTTAATGTCCCTT
CGACTTCTCTTCTCACTTCGAAATGAATGTGGAATGCTGTACGCCCTATTTTTCTAATTCCTCGATGTGGGT
TTTTCTCTTTTATATCTCACTTTAATGCTCTTCTCTATGACCTTTCATCTAAAACTGACCACTCTCTT
ACAGGTTTTTACGGTAAAAAATCGGTCTTTCTTTAATCTTACATAGCTGAACGAATTCATTGGCTCAG
TATTTTAAAGATACTAGTCAGTATATACTGTTCTGTAACTTAAAAGATGACCTGAAAAATTAACAGGCCCTCTCC
CATTCTCTTCTCACTCTATCCCCACCGAAGAGGGCTCAGAAAAAGTTTTTATTAATATATTGGGGTCGGAG
AAATACAAACATCACAAAGATACGATATCCCCAGCTTAAATGTACTGGAACGTTTGTGAGTGGTTTCTTTCC
AAAGTTTACCCTACATAGGGAATTGTAGAAGTGAGTTAGTAGAAGTGAGTTCGTGTGAAACCTGGAAAGAAAA
AAAAGCCCCATGCAACACGTTCCGGGCTGTGTGTAGATGTTTATTCTAGTCACTAGGGGAAGCACATAAAAA
CCTGAGGTGTGTGTGCTGAAGGGCGAATTTGTCTTTTGGGGAGTTCAATGATATAAATCTAGAACCAAAAA
TCAATCAGAAGGTCAGTTTAGGCTTTAGTCTCTTTGAGGAAAGATTTAAAGCAATAGACTATAATAGTTACCC
GGTAGACTAAAAAATTTGCCTTTAATCTTTTGATTGGAATTTTTTTTACAAAGTTTGGAGCATGGAACAAAT
GAAAATTGAACCTGCTTATTTTGGATGGTGTATTGATGCCCCAACAGAACTTTCTAAATCATGCGATAAA
CATATATGATAGTAGTTGTAAATGCTTCTGTGTTTGAATGTTGAGTAATTATCGATAGAAATTTTGCTGTCC
ATTCATACATTCCTTCAATTAACCTTTCATTGTTAAAAAATTGGGGGATTGATGTTTGGTTTGGTTTGTGGGGAGT
GAAGAGGACTACTGGAGGGACCTTGTGTTGCTTCTTTTTCTTTTTTAAATTTATCATCAAGTCTAGGAAAGGA
GTAAGTTGCCGACAATTGTCATTTTCCCTCCTAAGAAAGTAACATGTTAAGATTCCCACCTACCAGCCTGGGTG
ACAGTGAGACTCCCGTCTCNNNNNNNNNNNNNNNNNNNTCCACCCACTTTAAGCTAAAGTATATGTAGGCA
TTAAAGATTTATTTAATAGAAATAAAGGGCCCTTACGGCCCTTGTGGTCATAGGAAATATTTTTTACAAG
TGGTACCCAAGTGATTTT

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FIGURE 1048

RHFAGACDRVGVEWSGCGCRLFPLPHGPVSGGLIRPSALEPRLVSYLVLGASST

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FIGURE 1049

ATCAGCGAGGGATTACGGCGAAATGAGACTGTTTCGTGAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG
CCGCCGGGAGAGCCCGGGGAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC
TGACCCGGCCTAAGGTCCCTGTCTTGAGCTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT
ATTTTTTTTTTTTATCTGGCTGGGAGCAAGATGACCTCACTAACCACTGGCTGGAATGGGAAGCGACAGAGCTGC
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGGTTCAGTGC
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTGAGAACTGTCTTTCTGGCTGGGGAGACAGAATCTC
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCCTACCTCCCTGAGGAGCTGAGTG
CCCTGCACAGCTGGTTCCAGACACTGAGTACCCAGGAACCATGTGAGCGAGCTGCAGAGACTGTACTGAAACAGC
AAGGTGTCCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCCGCTGAGGGAAGGGCTGTACCA
ATGAGCCTGAGGAGGAGGAGCTGGCTACCTATCTGAGGAGGAGATTGCTATGGCTGTTACTGCTTGGGAGAAGG
GCCTAGAAAGTTTGGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTCCTGTGGCTGGAGAAAGGAATGTGCTCA
TCACCAGTGCCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG
TCTTTGCCAGGTACTCTCGCCTCCGCCAGTGGAACACCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA
TCTACCGCTGGTTTTAACATTTCTGTTTGATATTTTTGGTGCACACCCTCCACAGCAGACCAAAATCACCAGG
ACATTTTCCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG
CTCGCTTCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCAGT
GTGACAAGTGTGGCAAGCTCATCAATGCTGTGAGCTTAAGAAGCCTCAGTGTAAGTCTGCCGATCATGCCCTG
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGGTTGGGGAGGA
CATTGCCTGGCAGTGACTGGACACCCAAATGCCAGTTTATCACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCTTAGAAGGTTTGAAGACAAGGTATTCTATGTCT
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACTACACAGACCAGTGGGAGAGATGGTGGAAAGAACC
CAGAGCAAGTGGACCTGTATCAGTTTCATGGCCAAAGACAATGTTTCCTTTCCATAGCTTAGTCTTTCTTGTCTAG
CCCTAGGAGCTGAGGATAACTATACCTTGGTCAGCCACCTCATTGCTACAGAGTACCTGAACTATGAGGATGGGA
AATTCTCTAAGAGCCGCGGTGTGGGAGTGTGTTGGGGACATGGCCCCAGGACACGGGGATCCCTGCTGACATCTGGC
GCTTCTATCTGCTGTACATTCGGCCTGAGGGCCAGGACAGTGCTTTCTCTGGACGGACCTGCTGCTGAAGAATA
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTTGTGTCTAAGTTCTTTGGGGGCT
ATGTGCCTGAGATGGTGTCAACCCCTGATGATCAGCGCCTGCTGGCCCATGTCAACCTGGAGCTCCAGCACTATC
ACCAGCTACTTGAGAAGGTTCCGATCCGGGATGCCTTGCAGCAGTATCCTCACCATATCTCGACATGGCAACCAAT
ATATTCAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG
GCTTGGCAGTGAATATAGCTGCCTTGCTCTGTGTCATGCTTCAGCCTTACATGCCCACGGTTAGTGCCACAATCC
AGGCCCAGCTGCAGCTCCACCTCCAGCCTGCAGTATCCTGCTGACAACTTCTGTGTACCTTACCAGCAGGAC
ACCAGATTGGCACAGTCAGTCCCTTGTTCCAAAATTTGGAAAATGACCAGATTGAAAGTTTAAAGGCAGCGCTTG
GAGGGGGCCAGGCAAAAACGTCCCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAACTGAAAGCACAAAAGGCAGACAAGAACG
AGGTTGCTGCGGAGGTGGCGAAACTCTTGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG
CCCCTAAAGGCAAGAAGAAAAGCTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA
ATAAATGTACAACTCTCTATA

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FIGURE 1050

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNYLFSTSAICRYFFLLSGW
EQDDLINQWLEWEATELQPALSAALYYLVVQGKKGEDVLGSVRRALTHIDHLSRQNCPPFLAGETESLADIVLWG
ALYPLLQDPAYLPEELSALHSWFQTLSTQEPQRAAETVLKQQGVLAALRPYLQKQPQSPAEGRAVTNEPEEEEL
ATLSEEEIAMAVTAWEGLESPLLRPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFAARYSRL
RQWNTILYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNISFDIFGRTTTTQQTKITQDIFQQLLK
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL
FLDLPKLEKRLEEWLGRITLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTPVPLEGFEDKVIFYVWFDAITIGY
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPCSALGAEDNYTLVSHLIATEYLYNYEDGKFSKSRGV
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNSELLNNLGNFINRAGMFVSKFFGGYVPEMVLT
PDDQRLLAHVTLELQHYHQLLEKVRIRDALRSILTISRHNQYIQVNEPWKRIKGSEADRQRAGTVTGLAVNIAA
LLSVMLQPYMPTVSATIQAQLQLPPPACSIILLTNFLCTLPAGHQIGTVSPLEFQKLENDQIESLRQRFGGGQAKTS
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPPEAPKGKKKK

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FIGURE 1051

CAGGAGAAGCTGACCAGCCGCAAGATGGACAGCCGCTGGGGCGGGCGCAGCGAGTCCATCAATGTGACCCCTCAAC
GTGGAGCAGGCAGCCTACACCCGTGATGCCCTGGCCAAGGGGCTCTATGCCCGCCTCTTCGACTTCCTCGTGGAG
GCCATCAACCGTGCTATGCAGAAACCCAGGAAGAGTACAGCATCGGTGTGCTGGACATTTACGGCTTCGAGATC
TTCCAGAAAAATGGCTTCGAGCAGTTTTGCATCAACTTCGTCAATGAGAAGCTGCAGCAAATCTTTATCGAACTT
ACCCCTGAAGGCCGAGCAGGAGGAGTATGTGCAGGAAGGCATCCGCTGGACTCCAATCCAGTACTTCAACAACAAG
GTCGTCTGTGACCTCATCGAAACAAGCTGAGCCCCCAGGCATCATGAGCGTCTTGGACGACGTGTGCGCCACC
ATGCACGCCACGGCGGGGAGCAGACCAGACACTGCTGCAGAAGCTGCAGGCGGCTGTGGGGACCCACGAGCAT
TTCAACAGCTGGAGCGCCGGCTTCGTATCCACCACTACGCTGGCAAGGTCTCCTACGACGTACGCGGCTTCTGC
GAGAGGAACCGAGACGTTCTCTTCTCCGACCTCATAGAGCTGATGCAGTCCAGTGACCAGGCCTTCTCCGGATG
CTCTTCCCCGAGAAGCTGGATGGAGACAAGAAGGGGCGCCCCAGCACCGCCGGCTCCAAGATCAAGAAACAAGCC
AACGACCTGGTGGCCACACTGATGAGGTGCACACCCCACTACATCCGCTGCATCAAAACCAACGAGACCAAGCAC
GCCCGAGACTGGGAGGAGAACAGAGTCCAGCACCAGGTGGAATACCTGGGCTGAAGGAAAACATCAGGGTGC GC
AGAGCCGGCTTCGCCTACCGCCGCCAGTTCGCCAAATTCCTGCAGAGGTATGCCATTCTGACCCCCGAGACGTGG
CCGCGGTGGCGTGGGGACGAACGCCAGGGCGTCCAGCACCTGCTTCGGGCGGTCAACATGGAGCCCGACCACTAC
CAGATGGGGAGCACCAGGTCTTTGTCAAGAACCAGAGTTCGCTTTTCTCTGGAGGAGGTGCGAGAGCGAAAG
TTGATGGCTTTGCCGAACCATCCAGAAGGCCTGGCGGCGCCACGTGGCTGTCCGGAAGTACGAGGAGATGCGG
GAGGAAGCTTCCAACATCTGCTGAACAAGAAGGAGCGGAGGCGCAACAGCATCAATCGGAACCTTCGTGCGGGAC
TACCTGGGGCTGGAGGAGCGGCCCGAGTTCGCTCAGTTCTGGGCAAGAAGGAGCGGGTGGACTTCGCCGATTTCG
GTCACCAAGTACGACCGCCGCTTCAAGCCCATCAAGCGGACTTGATCCTGACGCCCCAAGTGTGTGTATGTGATT
GGGCGAGAGAAGATGAAGAAGGGACCTGAGAAAGGTCCAGTGTGTGAAATCTTGAAGAAAGAAATTGGACATCCAG
GCTCTGCGGGGGTCTCCCTCAGCACGCGACAGGACGACTTCTTCATCCTCCAAGAGGATGCCCGCGACAGCTTC
CTGGAGAGCGTCTTCAAGACCGAGTTTGTGAGCCTTCTGTGCAAGCGCTTCGAGGAGGCGACGCGGAGGCCCTG
CCCCTCACCTTCAGCGACACACTACAGTTTCGGGTGAAGAAGGAGGGCTGGGGCGGTGGCGGCACCCGCGAGCGTC
ACCTTCTCCCGCGGCTTCGGCGACTTGGCAGTGTCTAAGGTTGGCGGTTCGACCCCTCACGGTCAGCGTGGGCGAT
GGGCTGCCCAAGAACTCCAAGCCTACCGGAAAGGGATTGGCCAAGGGTAAACCTCGGAGGTTCGTCCAAGCCCCCT
ACCCGGGCGGCCCCCTGGCGCCCCCAAGGCATGGATCGAAATGGGGCCCCCTCTGCCCCACAGGGGGGGGCCCCC
TGCCCCCTGGAGAAATTCATTTGGCCCAGGGGGCACCCACAGGCCTCCCCGGCCCTCCGTCCACATCCCTGGGAT
GCCAGCAGACGACCCCGGGCACGTCCGCCCTCAGAGCACAAACAGAATTCTCAACGTGCCTGACCAGGGGATG
GCCGGCATGCAGAGGAAGCGCAGCGTGGGGCAACGGCCAGTGCCTGTGGGCGGACCCAAAGCCCCAGCCTCGGACA
CATGGTCCCAGGTGCCGGGCCCTATACCACTACGTGGGCAAGATGTGGACGAGCTGAGCTTCAACGTGAACGAG
GTCATTGAGATCCTCATGGAAGATCCCTCGGGCTGGTGAAGGGCCGGCTTCACGGCCAGGAGGGCCTTTTCCCA
GGAAACTACGTGGAGAAGATCTGAGCTGGGCCCTGGGATACTGCCTTCTCTTTCGCCCCGCTATCTGCCTGCCGG
CCTGGTGGGGAGCCAGGCCCTGCCAATGAAAGCCTCGTTTACCTGGGCTGCAATAGCCTAAAAGTCCAATCCTTT
GGCCTCCAGTCTTGGCCAGGCCCTGGGTACCCAGGTCACTGGTGCAGCCCCCGCCCCCTGGGCCCTGGTTTTCTT
CCAACATCACACCTGCTGCCCATTTGTCCAAAAGTGTGTGTGTCAAAGGGGACTAACAGCAGAAATTACCTCCCAA
CTGCCATGTGATTAAAGAAATGGGTCTTGAGTCTGTGCTGTGGCAAAGTTCAGGCACAGTTGGGGAGGGGGG
CCGGAATCCGC

1167/2682
FIGURE 1052A

TCGAGACCAAAAAAAGATGACATTAAACAAAAATGATGCGGAGAAACGGCGCGCGGGCGGGCGGCATCGGCAGCAGT
AGCAGAGGCTGTAGCATCGGACACCCCTCCTCTCTCCCGCAATCCGGTTCTCTTCCCCCTCCTTCTCACTGTTTG
TTGTGTGTTTGATGTGTTAAAGCAGGAGCGAGAACCCGAGCAGCGCCATGAGCAACACTACCGTCGTCCCGAGCA
CTGCAGGTCCGGGCCCCAGCGCGGGCCCGGTGGCGGAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGGCACCGAGGTA
ATCCAGGTGACTAATGTCTCCCGAGCGCTAGCTCTGAGCAGATGCGGACTCTCTTCGGTTTCCTAGGCAAGATC
GACGAACTGCGCCTCTTCCCGCCGGATGATTGCGCTTTGCCAGTCTCATCTCGTGTCTGCTTTGTAAAGTTCCAT
GATCCAGACTCAGCAGTTGTGGCACAGCATCTGACAAACACTGTATTGCTTGACAGAGCTTTGATAGTCGTACCA
TATGCAGAAGGTTTGTGCTTTGTTTAACTACCTATGTGGGCATCCTAAGATGACCATCTACCTCAGTAGATGTAG
AGTGAGCATTAGTAGCATGTTAAATCTAAGCTATTAAACATTTTTAAACCCCTGTGTATACTGCAGTCCGTAATTTT
TGCTTGCGAGATTTTTTTAATTCTAAAAATTAGAAATTAGGTCTGTTATTATAAGGTATTTACCTTTTGTTTTCT
TTTTAAACATTTTTTAAGTTGTTTAAACCATGTCCCTTATTGTAACCTCCGTGAGATACATCTACTTAGTTAATTT
AATGTTAAGTTTTATGAAAAAGCCCTGAAGGTAATGATTCACTCCATGTATGCTTACAGAGCCTTCAAATAAAT
GCATGATGTTATTTCTGTTTTAAATAAATGAGTAGGTTGATTTTATTTCTTAAAGCTCCTCACATTGATAATC
TGGAAAAAACACATTGAATTTAGTATACCAAGGGTGCAGTGATTTTGGTTTTCTGTGAAAGTTCAAGA
TTTCTGTAGCTTAGGTGCCAATGGGCACTGGGTGTTTTATTTTATGCCAGATTTTCTTGTTCTTCTTGCTAT
ATTTCTAGAATATCTCTAAATAATAAATCTTCTCTCTGTTATTTGTGTGTGATTTTATAGTGGAGAAGGCA
AATGCAAAACCCCTCCAGATGCCTGAAAAACAGTGGGTCTCTGCAGCTACAGGGGATTCTAGACATTAACATAAA
GGCCAGCAAGCACTCAAGTGCCCCAAGTGTTCCTGGTGTAACCATTTGTTAACTACATTTTCTCTCTTTTAC
ATTTTAGGCTGTTAAAGTAATTTGACAGAAAAAATGAGCAGGTTTTTGGATCTAAAAAGCCACTGTGACAAGA
AATTTAATACCATTTTGTAATAATTTCTAAGGCGTATTTTATAATTAGTTTGTTCCTCAATGTACTGCTACTTGA
TTTGCATTTTGGTAACTATAAATTTTACTCGAATCACTGAAATATGATAAAACTGCTGGATTTTAAAGTTAATAAT
TTAATATGCTGACCAGGATTTAAATGCTTTCCCTTTCTTAAATAAATGGTCAGTGGAAGTGAATCTTAATAT
TGTTCATTTTAGATGCTATCTGAAATCTTTGAAAACAAATGTGAGCATTACACCATACCTTGTAAGTTGTGA
AATGCTAGTCCTTAACAGAGAAGTTGCCCTCTGGTTTTCTAAAGAAATTAACCTATATTTATAAATGGGTGAAG
CATGTTATGTAATAGTACCTCTGTCTCCATGATATTAAGTGTATGAGCCAGTTTTAAGGTTTTGTAATGTATA
GATAGATAAAATTTTGAGTTAGTGTGTTTTGGTTAAGCAATTTCTTTTATGTCAGTGTCCCTGTTGTAGGATAAG
ACCATCAACAGAAAATTTACAGAATTCAAATTCAGGATGAATAAAATAGAGTATAGGTCTTGGAACAAGGGTCAA
ATCATGTGAGTAATATGTAACAAATTTTGTTAGCCTGTAAATTTAAATTTTATTGGCTAAGTATTATAGTTC
CCAATCCCTGAACATAATACAGTATATCATATAAATGACTTTCATAAATATTTTCAGGCCATAGTAATTTTCTA
GACCTATTTTGAAGTGAAGTATTTAGGAATATACAGTATATAGAATATTAGGGGAATATTTCACTCAGAATTTCTA
TTGTTGGTGAATTTAATTTCTGGTATGATATGCTGTATTAATGTTACCTCCAGTAATAACAATTTCCCTCCAGATT
AGCTATTACACTTCGGTGTTAGCTCTTGGTCAGTGTTTTAGAACAGTAGACATAGTCTACGGTAAGGAATAGTCT
TAATTGGTAAACTAAGATAGCTGAATTTGGAAGGAACCTCTTAATAGTAATGGATTGGGGATTTTTTAGGTTCC
TTGGTTAATGTTGTTTCTTTTGCTCTGTTTTCTTTTCTTTCAATTTCTACACATTCATGCAGTATTTTATGTTCT
ATCAAAGCAGCAGATAAAAAAATACTCTTGACGCATGAAAAATTAAGTGGTGAGGGGCCCTCATTGCTATTTTTAA
TTGTAGTTTTATTTTTAAATAGTCTTTTTTTAATCAGAGGATCAGATGCATGACTTTTTTTTTTTAATGGATGCA
GATCTTCTATCAGGTGTCTACAATAAATTCAGAGGATTTTAGTTTGGCAGAAATGTTGCAAATGCACTAATTT
GAGTAAGATGTTGATACTGAATATATCCTCTTGAGACATAATTTGTCATGCAAAATATCCCATAACTCTTGAT
GTTTGTAAATATTGATGCATTACTGCCCTATATCTAAATGATCTTCTCCCCCTTCCCTCCATAACTCTTGGTAT
CTAAATTGATGACAGCTCTGACACAAGCAAGATAACAGTGTGTGTAGTATACATTTGTTTATATATCGGCCT
TCTCAGTATAGGTGGAAGGAACCATACCTTTATTTAACAGTGGTTTTCTTTTTTGTGTGTGTGTGTGTGTGTGTGT
CTTTTCCCTGGTTTACGCTGAACTATATACCAGGCCCTGCTGAAAAATACCACCAACAGTTTTCTTCTGCAGCTT
ATCCAGTTTTCTTAAAGTGCCCTGTACATATTGTATGTTTTATGATGAGATGCAGTTTCTTAAATATGTATTACAG
AAATACTACTGGTATTTGCAAATATGTAGTTTAAATGTATTATTGAACTCTCATTTTGGGGCTTGGGCACATTA
ACAGATTAATCCATCTGTATAGGGCTTTTGCTGTTGGATAGAATTTAAATGTCTACATAAATATTTGTTTTAGG
ACCCTTAGATTTTATCTGAATACACAGATTAGGCTTTAAAAACAGATATATATGTCAATTTTGGCTTAAGGAGTT
TGGCTAAGTTAGCTTTTCAACTGGCACTGTATGGCAGCATTTTTTGGTATGGTTAGCATGGCACATGGCGAAACA
TAAAGCATTTTACTGTACAGGTAAGGAATGTGCCATGTTGTTTTACCTATCTCTCTTCTCTCTCACTCCCATG

1168/2682
FIGURE 1052B

ACACATCCTGTGTGTATTTCAGAGACCTTCAGAAACATTCATATTCATTTTCATGAGTCAGCAAAGCCCTACGCT
TGATTCCAACAGAATATTTCCCTTTACATACTTTCTTCTCTTAATTTTTACAAAATTTGTATGGTAGGTGTAAAAG
AAAATCATAGTAACGTGTACCATATTATTAACCCCTAAATCAAACTTTTTTTGTCTTGTGTATCTTGATTTTTCTG
TGTGCTTTATAGTGAAGCAGCCGACACGAGTCGTTGTTTCATAAAACAGCTTTTGAAAGTTGAGAGCACACCCCTG
GAGAACCGACTGTGCTTGCTTACGTTTGGTTTCATGACTTAAAAATCGAGTACAGGAGTTATTCCTGATGAAGCTA
AAGCTTTGTCTCTGTTGGCACCAGCTAATGCAGTGGCAGGTCTTCTGCCTGGTGGTGGACTCCTGCCTACTCCTA
ACCCACTTACCCAGATTGGCGCTGTTCCACTGGCTGCTTTGGGGGCTCCTACTCTTGATCCTGCCCTTGCTGCAC
TTGGGCTTCCTGGAGCAAACCTGAACTCTCAGTCTCTTGCTGCAGATCAGTTGCTGAAGCTTATGAGTACTGTTG
ATCCCAAGTTGAATCATGTAGCTGCTGGTCTCGTTTCACCAAGTCTGAAATCGGATACCTCTAGTAAAGAAATAG
AGGAAGCTATGAAAAGAGTACGAGAAGCACAGTCCCTAATTTCTGCTGCTATAGAACCAGATAAGAAAGAAGAAA
AAAGAAGGCATT

1169/2682
FIGURE 1053

RDQKKMTLTKMMRRNGGGGAASAVAEAVASDTLLSPAIRFLFPLLLTVCCVFDVLKQEREPEQRHEQHYRRPQH
CRSGPQRRARWRXXXXXXXXXXAPR

1170/2682
FIGURE 1054

CGGAAAAAAAAATGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGA
AAGCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACA
AATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAA
AGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTTGAAAGTGGTAGACGTGGACCGC
CTCCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAGGGGAC
CTCCCTCAGGGGAGGACACATGGATGACGGTGGATATTCATGAATTTAACATGAGTCTTCCAGGGGACCAC
TCCAGTAAAAAGAGGACCACCACCAAGAGTGGGGTCTCTCCTAAGAGATCTGCACCTTCAGGACCAGTTC
GCAGTAGCAGTGGAATGGGAGGAAGAGCTCCTGTATCAGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGG
AACCCTGCCCTCTCGTAGAGATGTTTATTTGTCTCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAA
GCAGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATG
GTCATTCCAGTTCACGTGATGACTATCCATCAAGAGAATATAGCGATAGAGATGGATATGGTCGTGATCGTGACT
ATTCAGATCATCCAAGTGGAGGTTCTTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTA
CACGAGGGCCCCGCCATCTTATGGTGGAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTG
GAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAA
GAGGGCTTCCCCCTTCTATGGAAGGGGTACCCTCCTCCAGTGATTCTTACAGCAGTTCAGCCGCGGAGCAC
CAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAAC
TTTGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACTATTCTATCATAACTACCCAGGACTACTAAAA
GGAAAAATTGTGTTACTTTTTTTAAATTCCCTGTTAAGTCCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAA
AGTAAACATGTTTAAATTTTATTTGACTTCTGCATTGCTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGT
ACTAGTGTGTAACTTTCCAAGTAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGG
CAGGCAATTCTAGTCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTAGGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCATGTAAAGGAAAGTGCTATTCACCCAGTAAACCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACACTACAGAATACTAAGTAAAAAGTTGGCCAAACCAAAAAA
AAAAAAAAAAAAAAAAAAAA

1171/2682
FIGURE 1055

MVEADRPGLKFIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGSGGTRGPPSRGGHMDGGYSMNFNMSSSRGPLPVK
RGPPPSRGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSREYSDRDGYGRDRDYSDHPSGGSYRDSYESYGNRSRSPPTRG
PPSYGGSSRYDDYSSSRDGYGGRDSYSSSRDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRG
GRGGRSDRGGRSRY

1172/2682
FIGURE 1056

ATTTTGTGGAATAGAGTTGATCGCTGTCTCCTCCGCAAAGCATTTTAACTCGAATAAGCAAATGCCGCCTCTGTT
TGAACGTTTTTGGTATTTACAAGAGAGAAATCATTTTACCTAAGAGAACTAATTGAATTGGCAGCATCCTTGAAAT
ACCTCCGGACAAGGATCTGGGGGTGGGGGTGGAAGCAACTGCGAAATAGCAGACGGAGAAATTCCTTTGGAAG
TTATTCCGTAGCATAAGAGCTGAAACTTCAGAGCAAGTTTTTCATTGGGCAAAATCGGGGAACAACCTATCTTCAG
CACTCGAGCTCATGTCTTCCAAATTGACCCAAACACAAAGAAGAAGTGGGTACCCACCAGCAAGCATGCAGTTAC
TGTGTCTTATTTCTATGACAGCACAAAGAAATGTGTATAGGATAATCAGTTTAGATGGCTCAAAGGCAATAATAAA
TAGTACCATCACCCCAAACATGACATTTACTAAAACATCTCAGAAGTTTGGCCAGTGGGCTGATAGCCGGGCAAA
CACCGTTTATGGATTGGGATTCTCCTCTGAGCATCATCTTTCGAAATTTGCAGAAAAGTTTCAGGAATTTAAAGA
AGCTGCTCGACTAGCAAAGGAAAAATCACAAGAGAAGATGGAACCTTACCAGTACACCTTCACAGGAATCCGCAGG
CGGGGATCTTCAGTCTCCTTTAACACCGGAAAGTATCAACGGGACAGATGATGAAAGAACACCTGATGTGACACA
GAACTCAGAGCCAAGGGCTGAACCAACTCAGAATGCATTGCCATTTTCACATAGTTCAGCAATCAGCAAACATTG
GGAGGCTGAACTGGCTACCCTCAAAGGAAATAATGCCAACTCACTGCAGCCCTGCTGGAGTCCACTGCCAATGT
GAAACAATGGAAACAGCAACTTGCTGCCTATCAAGAGGAAGCAGAACGCTGCACAAGCGGGTGACTGAACTTGA
ATGTGTTAGTAGCCAAGCAAATGCAGTACATACTCATAAGACAGAATTAAATCAGACAATACAAGAAGTGAAGA
GACACTGAACTGAAGGAAGAGGAAATAGAAAGGTTAAACAAGAAATTGATAATGCCAGAGAACTACAAGAACA
GAGGGATTCTTTGACTCAGAACTACAGGAAGTAGAAATTCGGAACAAAGACCTGGAGGGACAAGTGTCTGACTT
AGAGCAACGCTCTGGAGAAAAGTCAGAATGAACAAGAAGCTTTTCGCAATAACCTGAAGACACTCTTAGAAATTCT
GGATGGAAAGATATTTGAACTAACAGAATTACGAGATAACTTGGCCAAGCTACTAGAATGCAGCTAAGGAAAGTG
AAATTTCACTGCCAATTAATTAAGATACACTGTCTCTCTCATAGGACTGTTTAGGCTCTGCATCAAGATTGC
ACAAAAAAAAAAAAAAAAAAAA

1173/2682
FIGURE 1057

MGEQPIFSTRAHVFOIDPNTKKNVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKTSQKFG
QWADSRANTVYGLGFSSEHLSKFAEKQEFKEAARLAKEKSQEKMELTSTPSQESAGGDLQSPLTPESINGTDD
ERTPDVTQNSEPRAEPTQNALPFSHSSAISKHWEAELATLKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERL
HKRVTELECVSSQANAVHTHKTELNQTIQELEETLKLKEEEIERLKQEIDNARELQEQRDSLTQKLQEVERNKD
LEGQLSDLEQRLEKSQNEQEAFRNNLKTILLEILDGKIFELTELRDNLAKLLECS

1174/2682
FIGURE 1058

GAATTCAGCACAAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGTAAGGGAAAAAAACACTT
GTAATGGTGGCAACAGTGAAGCTGTTCCCTTTAACATCCCCAAATATAGCCAAGTTTAGCACTCCACCAGCCATCC
TCAGAAAAGAAGAGAAAAATGCGAGTGGGTTCATTCCCCAGGCAGCGAACTTAGGGATGGCTCATTGAACGATGGTG
GTAATATGGCGCTAAAAACATACACCACTGAAAACACTACCATTTTCTCCTTCACAGTTTTTCAACACATGTCCTG
GTAATGAACAACCTTAATATAGAAAATCCTTCATTTACATCAACCCCTATTTGTGGGCAGAAAGCTCTCATTACAA
CTCCTCTTCATAAGGAAAACAACTCCCAAAGATCAAAAGGAAAATGTAGGGTTTAGAACCTACTATTAGAAGAT
CTATACTGGGTACCACACCAAGAACTCCTACTCCTTTAAGAATGCGCTTGCTGCTCAGGAGAAAAAATATGGAC
CTCTTAAAATTGTGTCCAGCCACTTGCTTTCTTGGGAAGAAGATATTCGGGAAGTTTTAAAAGAAGAACTGGAA
CAGACCTATTCCCTCAAAGAGGAAGATGAACCTGCTTACAAAAGCTGCAACAAGAGAATACCGCTTCTGGGAAGA
AAGTCAGAAAATCACTAGTCTTAGATAATTGGGAAAAAGAAGATCAGGCACTCAACTGTTGACTGAAGACATTT
CAGACATGCAGTCAGAAAATAGATTTACTACATCCTTATTAATGATACCATTATTGGAAATACATGACAAATAGGT
GCAACTTGATTCCCTGAAAAACAAGATATAAATTCAACCAACAAAACATATACACTTACTAAAAAGAAACCAACC
CTAACACTTCCAAAGTTGTCAAATTGGGAAAAGAATCTTCAGTCAAATTGTGAATGGGAAACAGTGGTTTTATGGGA
AGACAGAAGACCAACTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTT
CAAGAGCTCTCATACTGTAATTGTTATTTAAATTGATGAAATGCCCTTACTGAGTCTCTACTAAATT
AGGTTGCAGTGAAATTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATACCCTTTTAAATACAGCATCTTTTTTC
TATTCTATATAGTAGGCAGAAAGCTAGTAAGTCACCTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAAGAGAT
GAGATTTTTTAAAAATTGTTTTTAAAGAACAAGATGGGAAAATAATAGAATGTTTCATGGATTCTAAAAGTAAATT
CTCATATATTTTCTTCAAGATATATGTTGCTACTCTCTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAG
TATATATGATTTCTGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGGTACTTTGCCCATGTGCT
GATTTACTTAGGCTACCATTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACT
AATTTTTTGTTTTTTTTTTTCAGAAGCAGTAAATTAACCTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGA
AAACAAAAGCATTCAAAAAGAGTTTTTTCTTTATTAGTAAATAGTATTTCTTAATCTCAGAGGAGCTGAGAG
TTTTGTTGAATGTATTGTACAGTATGTAGGAGCAGGAGAACITTGTAATTTGGAAAGAAGTCTGTTTTTATAATT
TATTTTTATTTTTTAAAGCTTAAATGTAGATATTTATAGTATACAGGGAGCCTAGAAGCCAATGTTGTTTCCTGTT
ATTACAGCTAACACAGTAAAGAATAATTTGACTTTAAGTATGAAACAGTAGTAAGTTATAGCTGCAAGAATAC
AATATCTATACTGTATGTCACATCTACCTAAATGTTGCACTATGCCCTTTAAATCATGCTGGTTATAAAGTAGTT
CTAAAATGTACTAAATAATAATTTAATATTTCTTTTTTAAATATATCGGGGGTGGTCATATACATTAATCTGG
TGATTTGTATAIGTGTTTGAAATTTTTTGCTTTTGTTTTAAAAAATAATATGGTACCTTGGTCCCTAAAAACA
GTCTGCACCTAGAAGTTATATTTACTCAGTGTTCAGAAGTGAGAACTTATCTTTTATTTATAAAAATATTTTG
TCCTTTTTTAAATGTTTTGTGTTTCTCTACAGGTTACAACAGTTGCTTCAGTTGCCTGTTTTAGGTGTTTGCCT
TATTTTATTTCTTCTGAAAGAAATTTTTATTTGCTTTTGTGGTAGAGATTATATGTAATTTTTTTTTCAGTCATAT
AATGGTGTGCTGTCAACTTAAACACTGACAGGTAAATAGAATTGTACACGTAGTTTGAATTTTATAATTGAC
ACACTCTCTCCCTCTCCACTCCTGAAGTATGCTGCTATAGAAAATAGCAGAAATCGGCTTGCTGCTACGAGAGAAG
GAAAGAGCGACCACCACTTGCACTGTGTGAAAGATAAAAAACAAATGATGGCAAGTTCTCAAGTTAACTAAATG
GAATCAACCATTACCAGGCAAATCTTGCAAATACCAAATACTACTATGCCTTATAAAACAAAATGAAAGCAGG
TTAAGATTTTCTGCTCTGTTGTATGTTAATAGAAATGGAATACTAAGTATTTTAAATGCTTAGCTATTGAACAG
TAGACCTAAAAGGGTTTTAAGCTATTTAAATCTACTTGCTAGTTTTTGCATATTTTATATATATATATTTATA
TATATATATAGTGAGAAGTGAAGAAAATGTATGGTACTAAGATTATGCCTTATTGATAAATAGATAAACCAATTT
GAATCCTCTTAGCATGTTTAAAGTATGTTGATTGCTTTCTAATTAATGAACTTCTCACAGAAATTTCACTTAGTGA
AACCAATGATTGTAGCAAACTCATACTGGATCATTTTCAGTTACCTTGAACCTAATAGCACATAATGGTTTTTTGTT
GTTGTTGTTTTTAAATGTAGCCCTTACCTGGATATACATAGTCTGCAATCACCAGTATAATATCTTGTAAGGCT
ATATTTTTTAAAGCATATTTTTTCTTGAGCATTAAATATCCTAAATGGTAATATATTGTGGATAAGTCTGGGCT
TATTGGACATAATACATATTTGGGTTGGTACTGGTTGAATCCTTCAGTTAACTGCTTTGTTGCTTTTTGCAAGAT
TTTTTATCTTAAACATGTACAGGCATCTTAAGTCACCTTTTACTGTTTTGTTCCCTGAGTTTTCTTCAGTATGT
TATACAAATGCCAGACATAACATGTAGCAGCCATACTTGCATGGAACTGACTACACATACATAAATCTGCATTT
TATTGTAAGGTTTTTACATTAAATACAGCAATTACCTGACTAAATTGAGTTTTGTGATATATGGAAAACCTTCATT
GTAAGAGAATCTTGATACAATGTTGACTATTAACATCCAAAATAAAGCATCTGTGTACAAG

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FIGURE 1059

GCCTGCTGCCCCGGGGTGGCAGGAGCCGAGAGGCTTGGGCTGCAGAAAAAGGATCCTGTTTGCTGTGTAATCCT
GAGAATGGACTGCAAGAGAGGAAAACTGGGCGTCTGCTTGGGAATCTATTGTGGAAACCCAGGGTGTTCCTCGA
CCAGTCCCTGGGCGCCAACTAGAGTATGGACTGACCAGGTACCTGGATGGAGACCTGAGCTGGAGAAGGAGATGC
GCTTGGGAGGAAATTGCAGAGGCCGTCAACATGGAAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCCGA
GAGGTGCCCCAGCTGTTGGGCTGCTGCTGATCATGGCCCTGATGAATACTCTACTCTACCTCTGCCTCGACCAC
TTCTTCATCGCTCCTCGACAATCCACTGTGGACCCACACACTGTCCCTATGGTCACCTCAGGATAGGACAGATG
AAAACTGCTCACCTTGGCTGTCTGCGAGGAGCTGAGAACAGAAGTGAGACAGCTGAAGCGTGTGGGAAGGA
GCTGTAAAGAGAGTCTTCTGTCTGAGTGAAGGAGCACAAAGTTGCACTCTCACAGCTCACCAGCCTGGAGATG
AAAGATGATTTCTCCATGGACTGCAGATGCTGAAATCTCTCCAAGGCACACATGTTGTCACGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCTCTAGGTTCTTGAGTAACCTGGAAGAAACACTAAAC
CTTTCAAAGTACCAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAGCATCATTAAT
TACCTGCACCACAGCCCTGTGGGCACACGGGTCTATGTGCGACTCCAACGACCTGCCGAAGACACTGTCCAGTAT
CTGCTAACAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCCCTTACCCTGGTGAACCACAGCTCCGGGATG
CTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTCGTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGAC
GTGCCCTTTCACGATGATCTCATGCCCTCATATGATGAGAAGATTGACATTTGGAAGATCCCAGACATCTCCAGT
TTCCTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGATTCCATTTGTTTGATATTACAAAGCATGCAAGAGC
CAGACTCCCTCAGAAAGACCCACTGCCCAGGACGTTCTGGAGACCTACCAGAAGGTCTTGGATACACTTAGAGAT
GCCATGATGTCTCAGGCAAGAGAGATGCTGTGAAGAACAGTCCAGCCAATGAAGGTGGGATTGAAGGGCTGAATG
GAAGTTACAGCATTCTACTCTGATGGTGGAGTTTTTGCCTGAGTTTCGTGTTTTATTGTTTTTTTTATGGCTTA
GCCATGTGGTTTCGTTGTCCACATCCACATGTACGTTTGTATGTAGTCCACATTGGTTGTTAGATTTTTTTTTT
TTCTTTGAGATGCGGTCTTGCTCTGTTGCTGAGGCTGGAGTGCAGTGATGTGATCTTGGCTACTGCAGCCTCTG
CCTCCCAGGTTCAAGCAATTCTCCACCTCAGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCCG
CCACATTCAAGTCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAA
AAATATAAGAAAAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCT
GTTCACTCATCTCCAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTTAAAGGAGTAGAATA
CCAAATGATAGAAACAGACTGCCTGAATTGAGAAATTTGATTTTTTAAAGTGTGTTCTTTCTAAATTGCTGTTT
CTTAATTTGATTAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTA
CTAATTAATCAGAAATGTGAAGTTATGCATGATGTAAAAATAACAAACATTCTAATTAAGGCTTTGCAACACCA
AAAAAAAAAAAAAAAAA

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FIGURE 1060

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHFRIGQMKNCS PWLSCE
ELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLQGTHVVTLGYCEDDNTMLTE
YHPLGSLSNLEETLNLSKYQNVNTWQHRLELAMDYVSIINYLHHS PVGTRVMCDSNDLPKILSQYLLTSNFSILA
NDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMP SYDEKIDIWKIPDISSFLLGHIEGSD
MVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

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FIGURE 1061

GAACAACCCAGAAACCTTCACCTCTCATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGC
TTCTGTGCCTGCTGCTCATGGCAGCCACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTTCAGTTTCCATTCCAA
TCACCTGCTGCTTTAACGTGATCAATAGGAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACA
TCCAATGTCCCAAGGAAGCTGTGATCTTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGAT
GGGTCAGGGATTCCATGAAGCATCTGGACCAAATATTTCAAAATCTGAAGCCATGAGCCTTCATACATGGACTGA
GAGTCAGAGCTTGAAGAAAAGCTTATTTATTTTCCCCAACCTCCCCCAGGTGCAGTGTGACATTATTTTATTATA
ACATCCACAAAGAGATTATTTTAAATAATTTAAAGCATAATATTTCTTAAAAAGTATTTAATTATATTTAAGTT
GTTGATGTTTTAACTCTATCTGTCATACATCCTAGTGAATGTAAATGCAAAATCCTGGTGATGTGTTTTTGT
TTTGTTTTCTGTGAGCTCAACTAAGTTCACGGCAAAATGTCATTGTTCTCCCTCCTACCTGTCTGTAGTGTGT
GGGTCCTCCCATGGATCATCAAGGTGAAACACTTTGGTATTCTTTGGCAATCAGTGCTCCTGTAAGTCAAATGT
GTGCTTTGTACTGCTGTTGTTGAAATTGATGTTACTGTATATAACTATGGAATTTTGAAAAAAATTTCAAAAAG
AAAAAATATATATAATTTAAACTAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1062

MKVSAAALLCLLLMAATFSPQGLAQPDVSIPITCCFNVINRKIPIQRLSYTRITNIQCPKEAVIFKTQRGKEVC
ADPKERWVRDSMKHLDQIFQNLKP

1179/2682
FIGURE 1063

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGCGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT
GCTCTTTCTGTGGCAAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTCACGGTAAAGTCGCCATCAGAAGACTGAAGGAGT
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA
AAAAAAAAAAAAAAAA

1180/2682
FIGURE 1064

MAKRTKKVGIVGKYGTRYGASLRKMKKIEISQHAKYTCSFCGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS
AVTVKSAIRRLKELKDQ

1181/2682
FIGURE 1065

ATGGCCGGGCCTCCGAGGCTCCTGCTGCTGCCCCTGCTTCTGGCGCTGGCTCGCGGCCTGCCTGGGGCCCTGGCT
GCCCCAAGAGGTGCAGCAGTCTCCCCACTGCACGACTGTCCCGTGGGAGCCTCCGTCAACATCACCTGCTCCACC
AGCGGGGGCCTGCGTGGGATCTACCTGAGGCAGCTCGGGCCACAGCCCCAAGACATCATTACTACGAGGACGGG
GTGGTGGCCACTACGGACAGACGGTTCCGGGGCCGCATCGACTTCTCAGGGTCCCAGGACAACCTGACTATCACC
ATGCACCGCCTGCAGCTGTCGGACACTGGCACCTACACCTGCCAGGCCATCACGGAGGTCAATGTCTACGGCTCC
GGCACCCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGGATGGCACAGATGCTCGGACGCCCCACCAAGGGCCTCT
GCCCTCCCTGCCCCACCGACAGGCTCCGCCCTCCCTGACCCGCAGACAGCCTCTGCCCTCCCTGACCCGCCAGCA
GCCTCTGCCCTCCCTGCGGCCCTGGCGGTGATCTCCTTCCTCCTCGGGCTGGGCCTGGGGGTGGCGTGTGTGCTG
GCGAGGACACAGATAAAGAACTGTGCTCGTGGCGGGATAAGAATTGCGCGGCATGTGTGGTGTACGAGGACATG
TCGCACAGCCGCTGCAACACGCTGTCCTCCCCCAACCAGTACCAGTGA

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FIGURE 1066

MAGPPRLLLLPLLLALARGLPALAAQEVQQSPHCTTVPGASVNITCSTSGGLRGIYLRQLGPQPQDIYYEDG
VVPTDRRFRGRIDFSGSQDNLTITMHRQLSDTGYTCQAITEVNVYSGTLVLVTEEQSQGWHRCSDAPPRAS
ALPAPPTGSALPDPQTASALPDPPAASALPAALAVISFLLGLGLGVACVLARTQIKKLCWRDKNSAACVVYEDM
SHSRCNTLSSPNQYQ

[illegible]

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FIGURE 1068

MHHNKQATENAKEEVRRILGLLDAYLKTRTFLVGERVTLADITVVCITLLWLYKQVLEPSFRQAFPNTNRWFLTCI
NQPQFRAVLGEVKLCEKMAQFDAKKFAETQPKKDTPRKEKGSREEKQKPAERKEEKAAAAPAPEEEMDECEQAL
AAEPKAKDPFAHLPKSTFVLDEFKRKYSNEDTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGM
FQRLDKLRKNAFASVILFGTNNSSSISGVVFRGQELAFPLSPDWQVDYESYTWKLDPGSEETQTLVREYFSWE
GAFQHVKGAFNQGKIFK

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FIGURE 1069A

GGATCCTTGAGGGCACTGGTGCCTTTTCAGGTGAGGTCTTAGCAGATGAAAGCGGCTGGCTGTGGCCCGCGCCA
GTAGTGCTTTCTGCTCCGCACTCGCCGTGAGCCAGGTGTGCAACCGGATTGGGGCGAGGGTCGCGCTGGCTACC
TCGCATGCGCAGAGCCGGAAGCCCGCTGACCGGACTACAGCTCCCAGAAGAGCCTTGTGGAGGCCGACAGCGGA
AGCCGCTGGCGCCATCTTGAAATCTGATCTCCATCCCCGAGGCTTTGCGTCTGCGCGGCCGCGGCTGCTGCTC
CGGGAGCCAGTCTGCTAAAAGGGGAGGACGTTGAGGACGCGCGGCTGGCGGGAGAGACAGCTGGGGAGAGACA
TGGCAGGGTCGGAGCGCGGCTGCGCCTCTGTCACTCAGCATCCTCTTAGGCGTTTCCACGCCCCCCCCCTGCC
GAGGGCGGGGCTGACGGCTCTGGTACCCGAGTCGGCGCGCGGGGAGGGGCGCGCCCTGCAGAGTGGGGACC
CCACTGGGCTGTGCCATGCTGACCGGAGACCACCGAGGCGGGAGACAGAGCGCGCGGAAGAGCCATTGAGTGGTC
ACCCAGTAGCCGCGCGCGCGGCTCGGGAAGCTTGCCACCCGCTAGGAGGGAAGATGAAGGAGATTGTCAGG
ATCTGTGCCCAGAGCTGTGTGGAACCAGCGCGCTGGATCTTCCACACGGCGTCCAAGCTCAATCTCCAGGTT
CTGCTTTCGCACGCTTGGGCAAGGATGTCCCCCGGATGGCAAAGCCGAGTTCGCTTGACGAAGTGTGCTTTC
ATGCTTGATCGAATCTATCGATTGACACAGTTATTGCCCGGATTGAAGCGCTTCTATTGAGCGCTTGCAAAAG
CTGCTACTGGAGAAGGATCGCCTCAAGTTCTGCATTGCCAGTATGTATCGGAAGAATAACGATGACTCTGGCGCG
GAGATCAAGGCGGGGAATGGGACGGTTGACATGTCCGCTTACCCGATGCGAGATACTCTGCACTGCTCCAGGAG
GACTTCGCTATTAGGGTTTGTGCTGGGTGGAGAATGAGGATCAGATCCAGGAGCCACACAGCTGCCATGGT
TCAGAAGGCCCTGGAACCGACCCAGGAGATGCCGTGGTGTGCGCGCTTGGCGGTTGTGATTCTGACTATGAA
GCCATTTGTAAGGTACCTCGAAAGGTGGCCAGAAGTATCTCTGCGGCCCTTCTAGCAGGTGGTCGACCAGCATT
TGCCTGAAGAACCAGCGTTGTCTGAGGTTGGGCCACCCGACTTAGCAAGCACAAAGGTACCCCCAGATGGAGAA
AGCATGGAGGAAGAGACGCTGGTTCCCTCTGTGGAATCTTTGGATGCAAGCGTCCAGGCTAGCCCTCCACAACAG
AAAGATGAGGAGACTGAGAGAAGTGCAAGGAAGTTGGAAGTGTGACTGTTGTTTCAGATGATCAGGCTCCGCAG
CATGGGTGTAATCACAAGCTGGAATTAGCTCTTAGCATGATTAAAGGTCTTGATTATAAGCCCATCCAGAGCCCC
CGAGGGAGCAGGCTTCCGATTCCAGTGAAATCCAGCCTACCTGGAGCCAGCCTGGCCCTAGCATGACAGATGGA
GTTAGTTCGGGTTTCCCTTAACAGGTCTTTGAAACCCCTTACAAGACACCTGTGAGTTATCCCTTGGAGCTTTCA
GACCTGCAGGAGCTGTGGGATGATCTCTGTGAAGATTATTGCGCGCTCCGGGTCCAGCCCATGACTGAAGAGTTG
CTGAAACAACAAAAGCTGAATTCACATGAGACCACTATAACTCAGCAGTCTGTATCTGATTCCCACTTGGCAGAA
CTCCAGGAAAAAATCCAGCAAACAGAGGCCACCAACAAGATTCTTCAAGAGAACTTAATGAAATGAGCTATGAA
CTAAAGTGTGCTCAGGAGTCGTCTCAAAAGCAAGATGGTACAAATCAGAACCTCAAGGAACTCTGAAAAGCAGG
GAACGTGAGACTGAGGAGTTGTACCAGGTAATTGAAGGTCAAAATGACACAAATGGCAAAGCTTCGAGAAATGCTG
CACCAAAGCCAGCTTGGACAACTTACAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGAT
CTTCAGAGTGCTTATTCTGCAGCCAACTTGAATAACAGACTCCAGAGGGTGGTACGACAGAAAGAGCGCCAA
CTGGCTGATGCCAAACAATGTGTGCAATTTGTAGAGGCTGCAGCACACGAGAGTGAACAGCAGAAAGAGGCTTCT
TGGAAACATAACCAGGAATTGCGAAAAGCCTTGACAGCTACAAGAAGAATTGCAGAATAAGAGCCAAACAGCTT
CGTGCCCTGGGAGGCTGAAAAATACAATGAGATTGCAACCCAGGAACAAACATCCAGCACCTAAACCATAGTCTG
AGTCACAAGGAGCAGTTGCTTCAGGAATTTGGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCTTGAA
GCAAAATGAAATGTTGCTTGAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGGGCTATAGAT
GAAAAATTCTCTGCTCTAGAAGAGAAAGAAAGAACTGCGCCAGCTTCTGCTGCTGTGAGAGAGCGAGATCAT
GACTTAGAGAGACTGCGCGATGTCTCTCCTCCAATGAAGTACTATGCAAAGTATGGAGAGTCTCCTGAGGGCC
AAAGGCCTGGAAGTGAACAGTTATCTACTACCTGTCAAAACCTCCAGTGGCTGAAAGAAGAAATGGAACCAAA
TTTAGCCGTTGGCAGAAGGAACAAGAGAGTATCATTAGCAGTTACAGACGTTCTTTCATGATAGGAACAAGAA
GTGGAGGATCTTAGTGCAACACTGCTCTGCAAACTTGGACAGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAG
CGTCTACAGCGAAAGGAAAGGATGCTGCAGGACCTTCTAAGTGATCGAAATAACAAGTGTGGAACATGAAATG
GAGATTCAAGGCCCTGCTTCAGTCTGTGAGCACCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGCAA
GCCTTAATGGAAGAAATTCAGAATTACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAA
GCACCATCTCTAACCAACAAGCTGAAGTTACCCCACTGGCCGCTTGGAAACAGACTGATCAAGGTTCAATG
CAGATACCTTCCAGAGATGATAGCACTTCAATTGACTGCCAAAGAGGATGTGAGCATACCCAGATCCACATTAGGA
GACTTGGACACAGTTGACGGCTGGAAAAAGAACTGAGTAATGCCAAAGAGGAACTTGAACATGCTGCTAAAAAA
GAAAGAGAAAGTCAGATGGAACCTTCTGCTCTACAGTCCATGATGGCTGTGAGGAAAGAGCTGCAGGTGCAG
GCTGCTGATATGGAGTCTCTGACCAGGAACATACAGATTAAAGAAGATCTCATAAAGGACCTGCAATGCAACTG

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FIGURE 1069B

GTTGATCCTGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCGGGAAAAAGTTGCTTCA
GTAGAATCCCAGGGTCAAGAAATTTTCAGGAAACCGAAGACAACAGTTGCTGCTGATGCTAGAAGGACTAGTAGAT
GAACGGAGTCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCTGGTGAAGTTCCATGCCCCAT
CCAGAGAGCTCTGAGAGAGACCGAACTCTGCAGGTGGAAGTGAAGGGGCTCAGGTGTTACGCAGTCGGCTAGAA
GAAGTTCTTGGAAGAAGCTTGGAGCGCTTAAACAGGCTGGAGACCCTGGCCGCCATTGGAGGTGCAGCTGCAGGG
GATGACACCGAAGATACAAGCACTGAGTTCACTGACAGTATTGAGGAGGAGGCTGCACACCATAGTCACCAGCAA
CTATAGCTTCAGAAGCATTCTTACTTGCAAGACGATGGACACATTCCTTGGGCTTTTGTAACTGAAACGCAC
CACAGAAGACAGGGAGTCATCGAAGGGCTGCTCGGGGAGGTGGCAGGGCGGAGGACCTGCTTGGGAAGAACTCC
AAGAAGATTGGAATGCTTCCAAAGCAAGAATCTTCTCAGTGAAATCTCATTATACAAAGAGAACCTTATGCAAC
CTGACAAACCACTGAGGTGATGGTGACTCAGTGATCAGCAGATGGTACTTCAACAGCAATCCCTGTCAAACCTC
AGAAGTTGAGGCTGAAACATTGCTTCCACCCACCATCAGTGAAGATGTAAGTACATGTTACAAGAGTGAATAAT
CTGGACTTCAGAGATTAAGTCACCAATAGTGATCTCACAAGCACTCACCAGGAACTCCTATAATGTCTCCACTTTG
TCCATGCCATTTAGCAATCTCATCTCCTAAATGGACTGTGCCTATGATTCTTAAGGAGAAAGTGAATCATTGGTA
GATATCCTGCACAAGCAGCTGGACTTTCCAGTAATAGCTTTCTTGGGGCTATTAGGAAAATTAAACAAGAAATGA
GGCTTTCTGGGTCTGCCTGTATGTCTTCTGCATAAGACAAAGAAGAGACATCGAATCAACCAATAAGAAGAGCCC
AAATAAGCATCCTCAAATCTTTTGGGATTGGCACTTGGGGACATGAGTAGTTGTCTGGGATACGTCATATTCTC
AACAGTTTCTTTGTAGTAGTAGGATCACCTTCTTATAATAGGATCACCTTCTTGTGCTATAGCTGTACCCGACC
TTCCCTTCTCCCTTGAGTGCTTGCATGAGCTCCACTTTTCTTTTGGCTTGAACAGCTTCTCCTGAGTCTCCTTA
CCGATGGTTGTGACTTTAATTATATACATCTCTGTCCCTCCAGACAGATCCCTCTGTCTCCTCACTCTCTGATTTC
TTGAGGATCTTGGGTGAGAGAGAGGGACCTGCAGGATGAACAAATGTCTACTCTAAGACAGCTAGATTGGGAGGT
TGGCTGGTCACTGATGGTTATAATGACTGTGGGACAGGATTAACCTCAGAATAAATGAACAGGAGACACAGATAT
GAAGAAAGTTTCTGATTGATATGGTCTGAAGTACTCCTGGTATTGCAAGTCATTTGCTCTAATTCTCAATTGTAG
GCAAAGTGAATTTGTAAATTTGCTTCTTCAGCCTTCTTCTCTGTAGCCTAGCATGGAGAATCTGACCAGACCCCAT
TTTGAGAAGGTCAGCCTACACTGGAATGAACCTTTTACATTAGGGCATTGTATTTCCCTCACAATACTTGCCAC
ATTACTTGGCATAGGAGAGATGCTTAGTGTAATTATAAGTTAACAAGCCCTTGGATCAGGGCTTGACTCATGATA
GACAAAGTATATGCCTGCTGGATGGAAGAATCTCTTGGGCGAGCACCATTTTCTTCCATCACCTTTCTTGA
AATATATCTTCAGCTTTGGGTAGGAGGAATCTTGGTGTATGAAATCATTGCAAATTTACTTCATCTTTCTGGAG
TTTGAAGTTGTGACTCTCCTGCTACCAATTAATAAAGCTTACTTTGCCAT

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FIGURE 1070

MKEICRICARELCGNQRRWIFHTASKLNLQVLLSHVLGKDVPRDGKAEFACSKCAFMLDRIYRFDTVIARIEALS
IERLQKLLLEKDRLKFCIASMYRKNNDDSGAEIKAGNGTVDM SVLPDARYSALLQEDFAYSGFECWVENEDQIQE
PHSCHGSEGPGNRPRRCRGCAALRVADSDYEAIKVPKVARISICGPSSRWSTSICTEEPALSEVGPDDLASTK
VPPDGESMEEETPGSSVESLDASVQASPPQKDEETERSAKELGKDCCSDDQAPQHGCN HKLELALSMIKGLDY
KPIQSPRGSRLPIPVKSSLP GAKPGPSMTDGVSSGFLNRS LKPLYKTPVSYPLELSD LQELWDDL CEDYLP LRVQ
PMTEELLKQQKLNSHETTITQQSVSDSHLAE LQEKIQQTEATNKILQEKLNEMSYELKCAQESSQKQDGTIQNLK
ETLKSRERETEELYQVIEGQNDTMAKLREMLHQS QLGQLHSSEGTSPAQQQVALLDLQ SALFCSQLEIQKLQRV V
RQKERQLADAKQCVQFVEAAHSESEQKEASWKHNQELRKALQQLQEELQNK SQQLRAWAEAEKYNEIRTQE QNIQ
HLNHSLSHKEQLLQEFRELLQYRDNSDKTLEANEMLLEKL RQRIHDKAVALERAIDEKFSALEEKEKELRQLRLA
VRERDHDLERLRDVLSSNEATMQSMESLLRAKGLEVEQLSTTCQNLQWLKEEMETKFSRWQKEQESIQQQLQTS L
HDRNKEVEDLSATLLCKLGPQGSEIAEELCQRLQRKERMLQD LLSDRNKQVLEHEMEIQGLLSVSTREQESQAA
AEKLVQALMERNSELQALRQYLGG RDSLMSQAPISNQQA EVTP TGR LGKQTDQGS MQIPSRDDSTSLTAKEDVSI
PRSTLGDLDTVAGLEKELSNAKEEELMAKKERESQMELSALQSMMAVQEEELQVQAADMESLTRNIQIKEDLIK
DLQMQLVDPEDIPAMERLTQEVLLLREKVASVESQGEISGNRRQQLLLMLEGLVDERSRLNEALQAERQLYSSL
VKFHAPHPESSERDRTLQVELEGAQVLRSLRLEEVLGRSLERLNRLET LAAIGGAAAGDDTDTSTEF TDSIEEEAA
HSHSQQL

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FIGURE 1071

GTAGTGCCGCCGGGACTCTTGCGGGTGAAGGTGTGTGTGTCAGCTTTTGGCTCACTCGAGCCCTGGGCGCTGCTTG
CTAAAGAGCCGAGCACGCGGGTCTGTCATCATGTCGCGTTACGGGCGGTACGGAGGAGAAACCAAGGTGTATGTT
GGTAACTGGGAACTGGCGCTGGCAAAGGAGAGTTAGAAAGGGCTTTCAGTTATTATGGTCCTTTAAGAAGTGT
TGGATTGCGAGAAATCCTCCAGGATTGCGCTTTGTGGAATTCGAAGATCCTAGAGATGCAGAAGATGCAGTACGA
GGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAACTATCGACAGGCATGCCTCGGAGATCACGT
TTTGATAGACCACCTGCCCCGACGTCCCTTTGATCCAAATGATAGATGCTATGAGTGTGGCGAAAAGGGACATTAT
GCTTATGATTGTCTCGTTACAGCCGGCGAAGAAGAAGCAGGTACGGTCTAGATCACATTCTCGATCCAGAGGA
AGGCGATACTCTCGCTCACGCAGCAGGAGCAGGGGACGAAGGTCAAGGTCAGCATCTCTCGACGATCAAGATCT
ATCTCTCTTCGTAGATCAAGATCAGCTTCACTCAGAAGATCTAGGTCTGGTTCTATAAAAGGATCGAGGTATTTT
CAATCCCCGTCGAGGTCAAGATCAAGATCCAGGTCTATTTACGACCAAGAAGCAGCCGATCAAAGTCCAGATCT
CCATCTCCAAAAGAAGTCGTTCCCCATCAGGAAGTCTCGCAGAAGTGCAAGTCTGAAAGAATGGACTGAAGC
TCTCAAGTTCACCTTTAGGGAAAAGTTATTTTGTGTTACATTATTATAAGGGATTTGTGATGTCTGTAAAGTGT
ACCTAGGAAAGATAATTCAACCATCTAATCAAAATGGATCTGGATTACTATGTAAATTCACAGCAGTAAGGATAA
TATAAATTTTGTGTAATGTATGAACATCATATGGTCTGAAAATGTGGGTTTTTATTTGGCACATTTAAATAACAT
GTTTCTAACTAGATTTTGTGTTTCAATATTAACACTTCTTAATTTGATATATTTGAGAGTCAGACATTAT
AATTGTTAATCCTTATTCATACATACCTACATTGAGAAATGAAAGGTGTGGTTAAGTCTTGAACATCACIATTC
TATGCATAAACTTGGCCAGGATCTTAAGGGACTTTGAAAATTCATCTTACCCTTGTAGCTCTGGGTAAGATGA
CCTGAGTCCCTTATGATACAGCCTGAATGCATCATGACAGATCCTTAGTTAGCTAATCCGTTTGAAGTTGGTGT
AGTAGGTATTGTATGATCAGTGGTGAAGCAAGTAGGACCACTGATGTGTCTAAATGAGCATGACAGGAACATAAC
GAACTGATTAAATGTATGAGAAATAGAACTGATTTCTGGATGATCTTTATACTAATTGCAGCTTTTCAGGCTAC
TAGGTGGCATAGTGTTAATTAGGACTCCCCAAGATATGGGGAGTTCTACTCTCAATGGTCTTGTTTCTTTGCTTT
CTACATTAGTTAACCAGTTTTATACCAAAAATGCATGTTTGAGGAATTGTCTGAAATTGGGACAAAACACCTTC
ATGTAAACCAGCTTTGCAAAATTTTCCAGCCAGATACTCTTCATCTATTCAAATGGATTGCTTATTCTGAGCA
AAGACCTGTTGTTAATCTTCAAGCTAGGTTTTGCAGTTCCTCAACCACAACATTCTTCTATTTTGCCAGGCTGGTG
CAAAGTAATTAAAGATGTCAATCAGAAATGTCAATGAGACTAAAGTGGTTTTGTAAATCTCAGCTATATTTAGCA
ACACTCCATGTAGCTAATATTTTTTGGTAGCATCTGGTAGACCTTAGAATGTTACATAGCCAGTAGGTTCTTTAT
TCAAATTTAAGTATCTTAAGAATAGTAGGGCAGTAACAGTTACTTTTGAGAGTTTTCTGGTCAAGCTTTTACCA
GGCATTCTCTAGCCTTGGTACAAAAAATAAACCCTGCTGGTTGCGCAGATACCTAGGCTTGTCATTTTATG
CATTTTCAGCAAAGTCATTGGAGACTATTGCAACTGGGAATACTGGTCTGCATCAAGTTTAAATCGGTAGTTTGA
CCGCTAGTATGTTGGAAGTTATTTGGATTGTTTTGGAATTTGACTGGCTGAATTATGGTTGGTATAAAGTTAT
GTGTATACTGGCAGGCTTATTTATCTGTTGCACTTGGTTAGCTTTAATTGTTCTGTATTATTTAAAGATAAGTT
TACTCAACAATAA

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FIGURE 1072

MSRYGRYGGETKVYVGNLGTGAGKGELERAFSYYGPLRTVWIARNPPGFAFVEFEDPRDAEDAVRGLDGKVICGS
RVRVELSTGMPRRSRFDRPPARRPFDPNDRCYECGEKGHYAYDCHRYSRRRRSRSHSRGRYRSR
RGRRSRASPRRSRSISLRRSRASLRRSRSGSIKGSRYFQSPSRSRSRISRPSSRSKSRSPSPKRSRSPS
GSPRRSASPERMD

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FIGURE 1073A

CAAGCCAATTATGGCTCCCTTTCCCAATGGTAGTTTGTGAATGGCTTTAATTCGCCAGGATCTTATAAAACAAAT
GCTGCTGCTATGAATATGGGTCGACCATTCCAAAAAATCGTGTGAAGCCTCAGTTTAGGTCATCTGGTGGTTCA
GAACACTCAACAGAGGGCTCTGTATCCTTGGGGGATGGACAGTTGAACAGATATAGTTCAAGAACTTTCCAGCT
GAACGGCATAACCCACAGTAAGTGGGCATCAGGAGCAAACCTTACCTTCAGAAGGAGACTTCCACTTTGCAGGTG
GAACAGAATGGGGACTATGGTAGGGGCAGGAGAAGTCTCTTCAGAGGTGGAAGACGACGAGAAGATGACAGGATC
TCAAGACCTCATCCTTCAACAGCTGAATCAAAGGCTCCAACACCAAAGTTTGACTTATTAGCCTCAAATTTTCCA
CCTTTACCTGGAGTTTCAATCAAGAATGCCAGGTGAAGTCTGTTTGGAGAATAGGATGCTGATGTGTAAAGGTG
TCTACAAAGAAAAGGATAATGAAGAGTTGACAATTAGTTGCCAGTGCCCTGCAGATGAGCAGACAGAATGCACCT
CTGCCCAGCAACTCAATATGAGTACCAGTTCTCCATGTGCTGCTGAGCTTACTGCATTAAGCACAACCTCAGCAAG
AAAAGGATCTAATAGAAGATTCTCTGTTCAGAAGGATGGTCTCAATCAGACAACATAACAGTTTCTCCTCCAA
GTACTACAAAGCCATCGAGGGCAAGTACTGCTTACCATGTAATAAATAACATAAATGCAGCTACAGCTGTGGCTC
TACAGGAACCCCGAAAGTTAAGTTATGCTGAAGTGTGCCAGAAGCCCCCTAAAGAGCCATCTTCAGTTCTGTGTC
AGCCACTACGGGAACCTCGCTCCAATGTGGTGTCTCCACCAAAAATGAAGACAATGGAGCTCCTGAGAAGTCCG
TTGAGAAACCATGAGAAGCCAGAAGCAAGGGCTAGTAAGGATTATTCTGGCTTCCGAGGCAATATAATCCCA
GGGGAGCAGCAGGAAAAATCAGGGAACAGAGACGCCAGTTTAGCCATAGGGCTATACCTCAGGGAGTGAAGTCCG
GTAATGGCAAAGAGCAATATGTGCCACCCAGATCACCAAAGTAAAAAACAACAACTATTCAAACTTCACTC
TCTTCCCATTAACTTGAAGTGTGGCTATATTGAAGTGTGTTGGAGGGGAGGGGGTAGCCAGGAAGGAAACAAGA
GAAAGTACGTCCATTTTCAATATGAGTTTGGAGTTGTGAGTGATAGGATCCCAAAATTCATCTCTAATGTGGTTT
TTAATGCTGGAGGATTCCAATCAATATAAATATATATATATATACACACATATATAAAAGTATAATTTT
TCTATTTTGTGTTTTTGGTTTTAATTTGCAGAGATTGCTGCCAGGAATCAATTTTGAGGGTTTCAAGTTAGCTTG
GAAGAAAAAAGAAACATACATCCTTCAGTATAGGAGATGAGGGAATGAGAGAAAATATTTTTTGAAGAAGCAT
TTCTGTAAATTAGAAATTACTTTTTTAACTATTTAAAGTTTGGCTTGAAGAATGCCATCTCTGACTATATGG
CCTGTATTGCAAAGCAGATCAGTGGCTGGGGTGCCTGTTGTGGGTGTGAGTGTGTACAGAGCGATTGAAGCCA
AATCTGTTGTGATGTTAGTAAATGATTGAAAAGTGAATGTAATACTTGAGTAGATTTTTTTTTCTAGTTTGAAA
TTTAGTCTGTCTTTTTGACCTTACTAATATTTCAATTAACAAGTTGTAAACTCTGATTGTACTTAGAGATGTGA
CTACCAATCAGTTTGATACCAAGGAAAGGGGTTAATCAAGAAATGAAAATTTTATCTTGGACCTCAGTGCAT
CGGTCAAATGGATTTTCAAGAGTTTAAACTTCCCTGTGATTCCCCCTGAATACCCCAAAATGAGAAACAAATTT
TTTTTCTTACTCCATTTGTACTCTCTGTTCTTTGACTGCCACCCACAGAAAAGCAAAATAACCAACTACCTAC
TCAATTGTGTGTTTGTAAATGCTTTGAGCAGTCTAGTCAAATCATATAAATTGTTCTAAATTTTCAAGATTGAACA
TTGAAGTATTAACCTCTTCTGTTTACACATTTAGAATTTTAGCTCCCAAGATGGTAGGGCAGACTGACCGTACAGT
AATTTATTTGTGCTTAGTGTAAAGATTAAAGCATAGTAAGTGAAGTCTTAAAGTGTAAATATGTAGAAGTAAAA
AATTTTTTTTTAAAGGCTTAATTTGGGAGGGGGGACTTATTTCTGTTTACAGTGTATTACCTTCCCTCCCTCT
TCTCCCCCACACCCAAACAAATACAGTTTGAATTCAGTGAACAGTACCAGCAAGTCATGAGATTTTTTAGTA
AAGATGAGAAAGATGGTTGAAGAAATTAGTGCATAATTTCTCAGTGAATAAAGTGTAGTCTCATATACTAAA
TAGACAAGTTTACATGCTGTTATTTAGAAAATGACTAAAATATAAAAACCGTGTGTGTTAATCTGTTTTAAGT
CATACCATGTTTCAAGATTTCTATGTAAGGTGGGTTTTATTTTTCTTTTAAAGGATAGTTTGTAAATAGTAAGAACTG
TCCCATATGTTAGTAAATTACATATGTACAAATGAAACTGTAAATGTGAACACTGGAAGCACCATTGTGACA
TAGAGTAAACATCTTAGTAATATATTAAAGTGAATGTAATGGTGGTTAAATTACATTACTGTGAAATTCATCT
TCCAACCTCTAAGTTAAGCTTTGGAGATACATGTTAGTGGTTAACTGTTAAGAGCTTTGAAAACACTGCACATATC
TGTACAAGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTGATTGTTTTATGAC
ATGGTATACTACTATATTTACTCAGTTTGAAGTATTCATTTCTACACACTATTTTAAAAATGCCTACTAGGT
GAAACATAACAATAAACTACCTGTGCTGAAATTTGGGGGAAGTTAGGTCCTTTAAAAAACATATTAATCATT
GACTACATCTATGATAAAAGTGCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAAATGATAACGTTTTAA
GTGTTAATCCTTTGAATGCGTTGGATTTTCAAGATAAATCAATTTGTAAATCACTTGGTAAGGATTATAAA
CTTAATTACTGCACTTAAATGAAACATTACTTTTTTAAACAATGTGTACAAATGTAGGTCTGTATTACTTGT
ATGCTTGTGTGACTTACTGTTAGTCCAGCTCTAAAAATTTAAAGGTTGTAATTGAAATACAAGAAAGAGCCTTC
TTTTAGAAGAAAGCAAGTATATTTTGTCTTTTACTTCAATGTTATTTAAAGTAGAAATTTAATTTGTAGATATA
ACCTTTAAAAATTTTCTCATTAAAGACAATGTTTTTAAATTTAATTTGCCTCATTACATCTAATAGTTCCCATTTGA

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FIGURE 1073B

TGGCATGTATAGGGAAGAGTGANNNNNNNNNNNNNNNNNNNNNNNNNNNAATATTTATATATATTCACAGTATG
TATTTAGCATTTATTTTATTACAGCAGATTTAAAGTTTGTATCTAAATAATGCCTATGAGTTGTGTGAAGCTCTT
GGCTTTTTTCCAACGTTACTTTGTAACATAAGGGTGGATGTTTCATTGTAGTTTATTTATTTGGTTCTTTAGAT
GGAGGAATTTAAAAATCAAATTTTTCTCTTCACCTTTATGACTTGACATTCCTTGATCTGTTGGAGGCTAAAA
GTAGGTATAAATGATATTGAATGTTGGGTATAGTGATACCTGCCATAGTTCTTACTGCATGAAGAGAACAAGAG
TCACACAAGTTCAACCACTTTGCACTTCATAGAGAAGGTACATAGAGACATTGCAAAACCTGTCTCCATTTGCTAT
CCTGATAATTAAGGTTTTCATAATACCTAGGGCCTGTCTCTGAGTAATTTTAATTTTGCCAAATACACTGACATT
TAAATAGTGATCCATCTAAATTTTTTTCAGCTGGGTTTTGAGGAATATAAGAGCTTTCATGATAAAGGTTTGT
TGAGTTGTCTTATGTGCTGAATTTGCAGATGATCAGATGCTGTGCAGAATTCTGATTTATTTTGTTCCTAAA
ATTAAGATAGCTTGAATATTATTTACATTCCTTTTTCTTTTTTAAATAAACAGGTTTGCTTTGGAAAGGCTTAA
TGATGGAATGTTAGCATCTTCACTAGGGTAAAGAAGAACAAGAAAGAAATGTTGCTGGAACGTAAATAGTATTTAA
AAGTTAATGAACACTTCTCTAGTTTTCTTAGTTATGGCCTTAATAATTAGTCTCTTGGCTTAAATGTCCACTGGT
TTTACTTTGACACAGTTGAACAACACTGGGGTTAAGTCTCTGGTATTTAGGCTGGCAATATATATATTAACCATA
TTTTAAAAGTACCAATTTTGTTTTTACAGAAAAGATAAAACTCAAAGAGAACAGTGTATTCCTTCTGAGGGGCT
TTTATAAATTATTAATAATAATATATGATGGATTTTTCTTAATTTTTTATATTTTCCTTACAATTTTGGTGGCCA
TTAATTTAACTTTAGGCTTTTGGGCATATGCTAGTCTGAGCTTCCGAAAAGATACATATATGTTCCCTTTTCAT
TAGCTGAATGAGGATATTTTAAAGAGTTGAAAGAGAATTTATTTTCAAGTTGTGAGTAAATCCTCCTTTGAAATT
CACCTGATTATTAGATAACTTAAAGTTTATTTTTAAAGCTGACAACCTTTTTATGAATCTTCGAGTTGACAGTTC
CTAAAAGCGTAACTCAGATATTAATGGGCTGTGTATTAAATGGTTTTATTTTCAGTTTTGCAGCACAGAACACTG
TTGAAATATCCATATCAACTTGATTTTTTAACTAATTCAGGTGTCCTTTGCATCTCTTAAATGTTGGGGGTGG
GGGTCAGAGCCAGTTATCCGGCTTCTGTTTTGTGCGATTGCTTAGATTGTTTCCTGTTGTCAAACCTGTTACCCCC
AAAATTGGTGTGACACATGCTCATGCATAAAATGTTAAATGAGTACATCCTTGATTTGTATTTGTTTTCAACA
TCGCCAAGGTGCTATGGGAAATTAACAAAATTAGAAAAAAATAAAATTATTAAGCAGAAAAA

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FIGURE 1074

MNMGRPFQKNRVKQFRSSGGSEHSTEGSVSLGDGQLNRYSSRNFP AERHNPTVTGHQEQTYLQKETSTLQVEQN
GDYGRGRRTLFRGRRRREDDRISRPH PSTAESKAPTPKFDLLASNFPPLPGSSSRMPGELVWRIGCLMLLKVSTK
KRIMKSTISCPVPADEQTECTSAQQLNMSTSSPCAAELTALSTTQQEKDLIEDSSVQKDGLNQTTIPVSPSTTK
PSRASTASPCNNNINAATAVALQEPRKLSYAEVCQKPPKEPSSVLVQPLRELRSNVVSPTKNEDNGAPENSVEKP
HEKPEARASKDYSGFRGNIIPRGAAGKIREQRRQFSHRAIPQGVTRRNGKEQYVPPRSPK

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FIGURE 1075

CGAGGATGTGCGTGGGGGCTCGGCGGCTGGGCCGCGGGCCGTGTGCGGCTCTGCTCCTCCTGGGCCTGGGGCTGA
GCACCGTGACGGGGCTCCACTGTGTCGGGGACACCTACCCAGCAACGACCGGTGCTGCCACGAGTGCAGGCCAG
GCAACGGGATGGTGAGCCGCTGCAGCCGCTCCCAGAACACGGTGTGCCGTCCGTGCGGGCCGGGCTTCTACAACG
ACGTGGTCAGCTCCAAGCCGTGCAAGCCCTGCACGTGGTGTAACTCAGAAGTGGGAGTGAGCGGAAGCAGCTGT
GCACGGCCACACAGGACACAGTCTGCCGCTGCCGGGCGGGCAGCCAGCCCCTGGACAGCTACAAGCCTGGAGTTG
ACTGTGCCCCCTGCCCTCCAGGGCACTTCTCCCCAGGCGACAACCAGGCCTGCAAGCCCTGGACCAACTGCACCT
TGGCTGGGAAGCACACCCTGCAGCCGGCCAGCAATAGCTCGGACGCAATCTGTGAGGACAGGGACCCCCAGCCA
CGCAGCCCCAGGAAACCCAGGGCCCCCGGCCAGGCCCATCACTGTCCAGCCCACTGAAGCCTGGCCCAGAACCT
CACAGGGACCCTCCACCCGGCCCCGTGGAGGTCCCCGGGGGCCGTGCGGTTGCCGCCATCCTGGGCCTGGGCCTGG
TGCTGGGGCTGCTGGGCCCCCTGGCCATCCTGCTGGCCCTGTACCTGCTCCGGAGGGACCAGAGGCTGCCCCCG
ATGCCACAAAGCCCCCTGGGGGAGGCAGTTTCCGGACCCCCATCCAAGAGGAGCAGGCCGACGCCCACTCCACCC
TGGCCAAGATCTGACCTGGGCCCACCAAGGTGGACGCTGGGCCCCGCCAGGCTGGAGCCCGGAGGGTCTGCTGGG
CGGGGGCCAGCGTCCACCTTGGTGGGCCAGGTGAGATCTTGGCCAGGCTGGAGTGGGGCCAGCATAACATACA
GTGCCGCCACCAGCCCCCTGAGCCCTGTTTCCCCCACTACTCTTCCAAATTTGTGGAGACAGGGCTCAGGGGGC
TGGTGGCGGCACTGTATGTTATGCTGGGCATGACGGCCATGACTTCGGCTATCTTCTGTTTAGGTCCTTGATTT
CCTGATCTTTCTGAAGGATTTGTCCTTGGGCAATCTCGAGCTGCCGCTTTCATCGCCAGTGCAGGAGAACAGGT
CCAGCTTGATTCTCGTCTCTGCACTTAAGCTGTTCTCCAGGTGCGTGTGATTTGTCAAAAGAAAGCCTTCTGGAT
GCTGTTAAGATGTACCCTTCAGGTGAACCTGGTATCAGACCCACAGTACTTGCTGTTTGAGAAAAATAAAAAACA
AAAAGGTCAAAAAAAAAAAAAAAA

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FIGURE 1076

MCVGARRLGPGCAALLLLGLGLSTVTGLHCVGDTYP SNDRCCHECRPGNGMVSRCRSQNTVCRPCGPGFYNDV
VSSKPCKPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQPLDSYKPGVDCAPCPPGHFSPGDNQACKPWTNCTLA
GKHTLQFASNSSDAICEDRDPPATQPQETQGPPARPITVQPTA WPRTSQGPSTRPVEVPGGRAVAAILGLGLVL
GLLGPLAILLALYLLRRDQRLPPDAH KPPGGGSFRTP IQEEQADAHSTLAKI

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FIGURE 1077

CACGCAGCAGGATGGCAAGGGCTCCGCTTGGGGTCTCTCTCTTGGGGCTTCTCGGCAGGGGTGTGGGAAGA
ACGAGGAAGTGCCTTTATCACCATCTCTTCAACAATATGACCCAGGAAGCCGGCCAGTGGGGAGCCTGAGG
ATACTGTACCATCAGCCTCAAGGTACCCCTGACGAATCTCATCTCACTGAATGAAAAAGAGGAGACTCTACCA
CTAGCGTCTGGATTGGAATCGATTGGCAGGATTACCGACTCAACTACAGCAAGGACGACTTTGGGGGTATAGAAA
CCCTGCGAGTCCCTTCAGAACTCGTGTGGCTGCCAGAGATTGTGCTGGAAAACAATATTGATGGCCAGTTCGGAG
TGGCCTACGACGCCAACGTGCTCGTCTACGAGGGCGGCTCCGTGACGTGGCTGCCTCCGGCCATCTACCGCAGCG
TCTGCGCAGTGGAGGTACCTACTTCCCTTCGATTGGCAGAACTGTTGCTTATTTTCCGCTCTCAGACGTACA
ATGCCGAAGAGGTGGAGTTCACTTTTGCCGTAGACAACGACGGCAAGACCATCAACAAGATCGACATCGACACAG
AGGCCTATACTGAGAACGGCGAGTGGGCCATCGACTTCTGCCCCGGGGTGATCCGCCGCCACCACGGTGGCGCCA
CCGACGGCCCCAGGGGAGACTGACGTCTACTCGCTCATCATCCGCCGAAGCCGCTCTTCTACGTCATTAACA
TCATCGTGCCCTGTGTGCTCATCTCGGGCTGGTGTGCTCGCCTACTTCTGCGGCGCAGGCCGGCGGCCAGA
AATGCACGGTCTCCATCAACGTCTGCTCGCCAGACCGTCTTCTTGTCTCATTGCCCAGAAAATCCAGAGA
CTTCTCTGAGCGTGCCGCTCCTGGGCAGGTTCTTATTTTCGTATGGTGGTGGCCACGCTCATTGTATGAATT
GCGTCATCGTGTCAACGTGTCCAGCGGACGCCCCACCACCCACGCCATGTCCCCGGGCTGCGCCACGTTCTCC
TGGAGCTGCTGCCGCGCCTCCTGGGCTCCCCGCCGCCGCCGAGGCCCCCGGGCCGCTCGCCCCCAAGGCGGG
CGTCGTGGTGGGCTTATTGCTCCGCGCGGAGGAGCTGATACTGAAAAAGCCACGGAGCGAGCTCGTGTGTTGAGG
GGCAGAGGCACCGGCAGGGGACCTGGACGGCTGCCTTCTGCCAGAGCCTGGGCGCCGCCGCCCGAGGTCCGCT
GCTGTGTGGATGCCGTGAACCTTCGTGGCCGAGAGCACGAGAGATCAGGAGGCCACCGGCGAGGAAGTGTCCGACT
GGGTGCGCATGGGGAATGCCCTTGACAACATCTGCTTCTGGGCCGCTCTGGTGTCTTTCAGCGTGGGCTCCAGCC
TCATCTTCTCGGGGCCTACTTCAACCGAGTGCCTGATCTCCCTACGCGCCGTGTATCCAGCCTTAGCTCGCAC
CGACTTCAATTTCCACCCATCTCCAGTAGGAAATTGATTTTGAAGAAAGTAGGCTGCCGCCACCACGGCATTATG
ATCCCTTCCCCCTGCTGATCAATCTGCAGTTTGTGAACCTCACAAGAATGGTGTGTGCCCGTTCCCTGGCGTGTG
TAGGCCTGGCCGCAGTCCAGGGGTGAGCAGGAGGAAAGGGTTCACATAGGCTCTCAGGTGCCAGTCTTCCAGAAA
GCAAGGACTGCCCTTCATTACGCTTGTGACCTCCAGCCTTTCTAAGGCTCAGCCCCACGGGACTCTGGTGGC
TGCCAGCTTGTGAGCTATCTATCTATATTCTATAGCCAAACAGGAGACCCCTTTGCAGGACTTGCACACAG
GGAGGCTGTAGCCAGGAAACCTCTTCTTCCCTGGTCTGGCTCTGCTGGAGCGGGTGGGAACCAACACCTTCAG
TGCTGGTGGCCCTCAGGCCCACAGGTTTAAGGCTGAGGCTGCCCTGACCCTTCCACAGTCATTTCTTCTAGGTTT
TCTTGGCCCAGCACTGCCCATCCACCCCATGAGGCTCACTCATTGCAGATCCCAGCCCACCTGCCCCCTTCTT
CCCCACCCTGGAGGCTCTCTCTGCTAGTCTACAGTACTGACAGAAAGCAAGGACATGCGGCTGCATGGTGGGA
GCTGGTTGAATTGTCTTTATTAAACAAACAGGATATCCAAGGCCACTACATTGAGGAGGGGGGAGGGGGGAGGGAG
GAGAAGGGTTACTTGTGCTCACAATATATACAGATGCAAGCAAGGGGCGTGGAGAGTGAGGGCTCCCTGCTCCC
TCCCTCCACCGGGGAAGGGCATGGGCTAGAAGAGGAGAGGGGGTGGGAATGGGGGAATGTTTGGCTGCGGG
GTCCCCCTCCATTCCCTGGAGTTTGGGGGAAGGGGAATCATTAAAGTGCTTTCAGA

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FIGURE 1078

MARAPLGVLLLLGLLGRGVGKNEELRLYHHLFNNYDPGSRPVREPEDTVTISLKVTLTNLISLNEKEETLTTSVW
IGIDWQDYRLNYSKDDFGGIETLRVPSELVWLPEIVLENNIDGQFGVAYDANVLVYEGGSVTWLPPAIYRSVCAV
EVTYFPFDWQNC SLIFRSQTYNAEEVEFTFAVDNDGKTINKIDIDTEAYTENGEWAIDFCPGVIRRHGGATDGP
GETDVIYSLIIRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVLLAQTVFLFLIAQKIPETSLS
VPLLGRFLIFVMVVATLIVMNCVIVLNVSQRTPTTHAMSPRLRHVLELLPRLLGSPPPPEAPRAASPPRRASSV
GLLLRAEELILKKPRSELVFEGQRHRQGTWTA AFCQSLGAAPEVRCCVDVNFVAESTRDQEATGEEVSDWVRM
GNALDNICFWAALVLF SVGSSLIFLGAYFNRVPDLPYAPCIQP

[illegible]

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FIGURE 1080

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSPEMWELLQREKDRQCRGLELIA
SENFCSRAALEALGSCLNNKYSEGYPGKRYYGGAENVDEIELLCQRRALEAFDLDPAQWGVNVQPYSGSPANLAV
YTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLI IAGT
SAYARLIDYARMREVCDEVKAHLLADMAHISGLVAAKVIPSFFKHADIVTTTTHKTLRGARSGLIFYRKGVKAVD
PKTGREIPYTFEDRINFAVFPSLQGGPHNHAIAAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSG
GTDNHLVLVDLRPKGLDGARAERVLELVSITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVD FIDE
GVNIGLEVKSKTAKLQDFKSFLKDSQSLANLRQRVEQFARAFPM PGFDEH

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FIGURE 1081

AAAGCAGAATTGAGAGTTTGTTCCTTACACACAAGTTTAATGCCACCTTCCTCTGTCTGCCATGGACCAACAAGCA
ATATATGCTGAGTTAACTTACCCACAGACTCAGGCCCAGAAAGTTCTTCACCTTCATCTCTTCCTCGGGATGTC
TGTCAGGGTTCACCTTGGCATCAATTTGCCCTGAAACTTAGCTGTGCTGGGATTATTCTCCTTGTCTTGTTGTT
ACTGGGTTGAGTGTTCAGTGACATCCTTAATACAGAAATCATCAATAGAAAAATGCAGTGTGGACATTCAACAG
AGCAGGAATAAAACAACAGAGAGACCGGGTCTCTTAACTGCCCAATATATTGGCAGCAACTCCGAGAGAAATGC
TTGTTATTTTCTCACACTGTCAACCCTTGGGAATAACAGTCTAGCTGATTGTTCCACCAAAGAATCCAGCCTGCTG
CTTATTCGAGATAAGGATGAATTGATACACACACAGAACCTGATACGTGACAAAGCAATTCTGTTTGGATTGGA
TTAAATTTTTCATTATCAGAAAAGAACTGGAAGTGGATAAACGGCTCTTTTTTAAATTCTAATGACTTAGAAATT
AGAGGTGATGCTAAAGAAAACAGCTGTATTTCCATCTCACAGACATCTGTGTATTCTGAGTACTGTAGTACAGAA
ATCAGATGGATCTGCCAAAAGAACTAACACCTGTGAGAAATAAAGTGTATCCTGACTCTTGA

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FIGURE 1082

MDQQAIYAE LNLP TD SGPESSSPSSLPRDVCQGSPWHQFALKLSCAGIILLVLVVTGLSVSVTSLIQKSSIEKCS
VDIQQSRNKTTTERPGLNCPIYWQQLREKCLLFSTVNPWNNSLADCSTKESLLLLIRDKDELIHTQNLIIRDKAI
LFWIGLNFSLSEKNWKWINGSFLNSNDLEIRGDAKENSISISQTSVYSEYCYSTEIRWICQKELTPVRNKVYPDS

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FIGURE 1083A

GCCCCAGATCGGAAGTGACGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCGCGTTCTTGAGTC
GGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATCCCGGAACCGGATTCCGGCGTGTACAGGAATTCGAATT
TAGAGTTTAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTTACAGTATCTCAAAGACTTCACTTGACTTCTTG
ATCCTGCATAAAACCAAGGAGAAAAAGAAATCGGTCGCTCCAATTCTAGATCACATTCTTCAAGGTCAAAGTCTAG
ATCACAGTCTAGTTCTCGATCAAGATCAAGATCTCATTCTAGAAAAGCGATACAGTTCTAGGTCTCGTTCCAG
AACATATTCAAGGTCTCGTAGTAGAGATCGTATGTATTCTAGAGATTATCGTCGCGATTACAGAAATAATAGAGG
AATGAGACGACCTTATGGGTACAGAGGAAGGGGTAGAGGGTATTATCAAGGAGGAGGAGGTAGATATCATCGAGG
TGGTTATAGACCTGTCTGGAATAGAAGGCACCTAGGAGTCTAGACGAGGTCTTCACGTTCCAGGAGTCCAAA
AAGAAGATCCGTTTCTTCTCAAAGATCCAGAAGCAGATCTCGCCGGTCATATAGATCTTCTAGGTCTCCAAGATC
ATCCTCTTCTCGTTCTTCTATCCCCATATAGCAAACTCTCTGTTTTCTAAAAGACGAGGGTCTCAGGAAAAACAAAC
CAAAAAAGCTGAAGGGGAACCCCAAGAAGAGAGTCCGTTGAAAAGTAAATCACAGGAGGAACCGAAAGATACATT
TGAACATGACCCATCTGAGTCTATCGATGAATTTAATAAGTCATCAGCCACATCCGGTGATATTTGGCCTGGCCT
TTCAGCTTATGATAATAGTCTTAGATCACCCCATAGTCTTCCCTATTGCTACACCACCTAGTCAGAGTTCATC
TTGCTCTGATGCTCCCATGCTCAGTACAGTTCACCTCTGCAAAAAATACTCTTCTCAGCATTACATTCCATTCA
GCATAGTCTGAAAGGTCTGGGTCTGGTTCTGTTGGAAATGGATCTAGTCGATACAGTCTTCTCAGAATAGTCC
AATTCATCACATCCCTTACGAAGAAGTCTGCAAGACAATCGCACCACAGAATGCTCCAAGAGATGAGTCTAG
GGGCCGTTCTCGTTTATCTGATGGTGGAGATCAGGAACTGCAAAGACTGGGAAGTTCTTAAAAAGGTTTAC
AGATGAAGAGTCTAGAGTATTCCTGCTTGATAGGGTAATACCAGGGATAAAGAGGCTTCAAAGAGAAAGGATC
AGAGAAAGGGAGGGCAGAGGGAGAAATGGGAAGATCAGGAAGCTCTAGATTACTTCAGTGATAAAGAGTCTGAAA
ACAAAAGTTTAATGATTGAGAAGGGGATGACACAGAGGAGACAGAGGATTATAGACAGTTCAGGAAGTCAGTCT
CGCAGATCAGGGTAAAAGTTTTGCTACTGCATCTCACCGBAATACTGAGGAGGAAGGACTCAAGTACAAGTCCAA
AGTTTCACTGAAAGGCAATAGAGAAAGTGATGGATTAGAGAAGAAAAAATTATAAACTTAAAGAGACTGGATA
TGTAAGTGGAAAGGCCATGACTACAAAAGATAAGCAAAAGAAGACAAAAATTCTGAAAGAATAACAGTAAA
GAAAGAACTCAGTACCTGAGCAGGTAAAGTCTGAAAAGCTCAAAGACCTCTTTGATTACAGTCCCCCTCTACA
CAAGAATCTGGATGCACGAGAAAAGTCTACCTTCAGAGAGGAAGCCCACTTAGGATCAAAATGATAGCGAGTGA
TTCTACCGTCTGAGTCAAACCTCAAATGGCACCTGTTCTCTTGATGATTCTAACAGACCTGCTTCCTTGAC
TAAAGACAGGCTGCTTGCTAGTACACTTGTCCATTCTGTCAAGAAGGAGCAAGAATTCCGATCCATCTTTGACCA
CATTAAAGTTGCCACAGGCCAGCAAAAGCACTTCAGAGTCATTTATTCAACACATTGTGTCTTGGTTTCATCATGT
TAAAGAGCAATACCTCAAGTCAGCTGCAATGACCCTAAACGAGCGGTTCACTTCGTATCAGAAAGCCACTGAAGA
ACATAGTACTCGGCAAAAGAGCCCTGAAATACACAGGAGAATTGACATCTCACCAAGTACCCTGAGGAAGCATA
CCGTTTAGCAGGGGAAGAGAGATTTTTAAAGAAGAAAATCAAAGGGAGATAAAAAATTAAGGTGTGACTCTGC
TGACCTTCGGCATGACATTGATCGCCGTAGAAAAGAAAAGTAAAGAACGGGGAGATTCCAAGGGCTCCAGGGA
ATCCAGTGGATCAAGAAAGCAGGAAAAAACTCCAAAGATTACAAGGAATACAAATCTTACAAAGATGACAGTAA
ACATAAAAGAGAGCAAGATCATTCTCGATCTTATCTCTTACAGCATCACCTTCTTCTCCAGTTCTCGAGAAGA
AAAGGAGAGTAAGAAGGAAAGAGAAGAAGAAATTTAAACTCACCATGAAATGAAAGAATACTCAGGCTTTGCAGG
AGTTAGCCGACCACGAGGAACCTTTTTTGAATTAGAGGCAGAGGAAGAGCCAGAGGAGTTTTTGTGGGACAAA
TACTGGTCCAAACAACTCAAATACTACTTTTTCAAAGAGACCGAAGGAAGAGGAATGGGATCCAGAATATACCCC
AAAGAGCAAGAAGTACTTCTTGATGACGACAGAGATGATGGTGTGGATTATTGGGCCAAAAGAGGAAGAGGTCTG
TGGTACTTTTTCAACGTGGCAGAGGGCGCTTTAACTTCAAAAAATCAGGTAGCAGTCTTAAATGGACTCATGACAA
ATACCAAGGGGATGGGATTGTTGAAGATGAAGAAGAGACCATGGAATAATGAAGAAAAGAAGGACAGACGCAA
GGAAGAAAAGGAATAATAAATATGAAGTAAGATTACAACAGAGCAGAAGTTCACCCACCATTTTTTTTTACCTGA
TTTTTGTTTTCAAATAAGAATGTAAGCATTTTACTTAAATTTTACTGTTTGAAGTAGTCTATAGAAATTTGTT
TTAAGTCTTCAAATATCTTGAGAAATAGTAGACTGTATGTTGAAAATGTACTGAAATAAAGTAGAAATTTGTTA
CGTACCATATTTGTAATATCAACTTTTTAAACTTTTTAACGTTTTTGTACATGCATTGTAATCTGCTTTGTCT
ATAAGATATGGTCAAGTACAGCTCTGTGAAAGTCTGATTCTCTCTCTCCCTGTTTGTCAATGTTTTATTCTGA
AGTAAACGTTAGCTCTACATATAAATCCTGGAACAGAAATGTTTTATAGAGACTACACTAATTTTTAACTGTA
TACATCTGTTTAAATTTGAACACACTACATCGTAGGGTGACTGATTTTTGAAGTATACCACAGACAAAAGTTGTT
ACTATGGTAAACTAAGCTAGTTTAACTTGGAGCAATGCTTAAGAAGGAATTAAGGCTTTGCCAAT

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FIGURE 1083B

AGCTAAAAAGTACAAGCTATTAAAAATCAGATTGAAAAGTTTTGAGAAAATGTTATTTTTACTGAAAGCAAGCAG
TGGCCTATAAAGAACATTCTTAGGAGCCTTTTCTATTTGCGTTCAAACTGTGTGTTCTCTTTCTATTCTTATTT
GATAGTTTGAGTCATGGTCTTAGATATTAGCTATTTGTGAGAGGAACTGGTTTGTAAACAATACTGCAAATAGAA
ACCCCATTTCTACTGAACATCCTAGTTTTTAAACAGAAGAAAACTGTAATCCTGGGGTTGGTATGTAGGAGGTCT
ATCCTGCAGAATAAGTTGATACATTAGTACCTGATTTTCATATCTTACATATTTATTTGAGCTGAACATTAGTTTG
TAGTGTAACTATTAGTAAAAATAGAGAAACACAGCATACTGTTTATTAAATAGTATTTTAAAAAAATGTTTTTCA
AATGTCACCAATAAAAGTTTTTGGCAGGAAGCTTGTGCGGCATTGATCTAACCTTTTTCCCCCCCATTTCAGTTG
CAGTTTTTGTAGAATGGCTTTTTCTTTTTCTCTTAAGAGTTCTATTCTTCAGGTAGATAATTTTTCAAATGTGA
ATTATCTTTTGTGTCTATATTGATAGCTCTTAAAGGAGTGAAAATCTAAAATAGTAAATTTCAATGTTAAGTGTC
TGCTTTATGGGCATATATAAAAGTAGACACATTTTCAATTTGTTAATTTAGTTGTGTGTGTGTGTAAAAGGAGCTA
ATGCTTATTCTGTTAATGTAACTTTTTGAAGATCTTAAGTGTATTGCTCTTTTCATCTTAAACACTTTTCGAGGATT
TGCAGTGGCTCTAGCACCTAGATTACAGCCAGGAACATTGGTTAAGAACTGTTGGAAACAAAACATAAAGCAAAC
TCAACATATGTGATGTTTTATGGCCCTCAGATCCTTAGTATTGTGTGATTTTCCCCCGTTAACATGTCTTTCTAAA
ATTGTCTATTAAAGCAGAGGAAATACCTGCCAAAGGAAGTATGTATTGCATTAATCAGGGCATAACTAATATTCT
CCTGTTTCAAGATAATACTTATTTACGTGTGAAAGCAACATGGATGTGATTCCCAACACAGAATTTTCATGACCCT
TTTATTGTATACAAATAAATACCATAACAGTTACTTGGTTAGACATCAAATCTGTGTGCATGACTATGTGCTTAT
CCACTTAAGACAATAGGTAAGGGGATCTGAGAAATTATGTAATAGGGAGTGGGAATAAACTACTTAATTCCT
GTGGGCAGGTTATATTTTAAGTTCAAATGCATTGCTTTAACCTTTGGTTACTTTTATTCTGTTAAACAGAATTGA
AGAAAGAGTATTATACCAGAGTGTAGTAGGCTAGGGTGATTGTAAGAACTCTGTAATAGAATGTCATTGTGGATG
TTACCTTTTTTCAGATCCAAGCATATAAAAAGCCTGTATATTTTTTAAAAACACATCTTAACCTCCAGCTTTACGA
TATTATAAAAGTTGAATGGTTCCCTCTTGTTAAGGATATTTGCTTACAAGTGCTAGGAAATAACTCACTGATACCT
GCGTTAACATACTTTGTTTTGCCTAGAGAGGGGCAATAAAAATGAACCAAGGATATTTCCAGAAAGGATTAAGA
AAGCTGTTTTAAGAGGCCATGACTCTTTAGGTGTGTATGTGTACCTTTTCAGCATCCTAGGAATTTTTATACTAAA
AGCAAAATGTTTTTCCAGTTAGTCTTCTTCAAGGAATTACTATTGTTTCTTTTGTACAGGTAAAAATCAGTGT
GGGAATTATAATTTGAGAAAAATATTACCCAGTAACATTGAATGTAGATGGCTAAACGATTCTTACTCAGTGTGA
TGTATAATGATGCAACAGGGACCCTTGTAATTGTACATACGCCAATAAAATGTCACAAGTAAT

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FIGURE 1084

MGRSNSRSHSSRSKRSQSRRSRSHSRKKRYSSRSRSTYSRSRSDRMYSRDIYRRDYRNNRGMRRPYGYRG
RGRGYYQGGGGRYHRGGYRPVWNRHRSRSPRRGRSRSPKRRSVSSQSRSRSRRSYRSSRSPRSSSRSSSPY
SKSPVSKRRGSQEKQTKKAEGEPQEEPLKSKSQEPPKDTFEHDPSESIDFNKSSATSGDIWPGLSAYDNSPRS
PHSPSPIATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSTQHSPERSGSGSVGNSSRYSPSQNSPIHHIPSRRS
PAKTIAPQNAPRDESRGRSSFYPDGGDQETAKTGKFLKRFTDEESRVFLDRGNTRDKEASKEKGSEKGRAEGEW
EDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNTEEEGLKYKSKVSLKGNRES
DGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSERITVKKETQSPEQVKSEKLDLFDYSPPLHKNLDAREKS
TFREESPLRIKMIASDSHRPEVKLKMVPVPLDDSNRPASLTDRLLASTLVH SVKKEQEFRSIFDHIKLPQASKS
TSEFSIQHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVF
KEENQKGDKKLRCD SADRHDIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSR
SSSSSASPSSPSSREEKESKKEREEFKTHHEMKEYSGFAGVSRPRGTFFRIRGRGRARGVFAGTNTGPNNSTT
FQKRPKEEEWDPEYTPKSKKYFLHDDRDDGVVDYWAKRGRGRGTFRGRGRFNFKKSGSSPKWTHDKYQGDGIVED
EETMENNEEKKDRRKEEKE

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FIGURE 1085

ATGACCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCAT
GTGCAGACTCAGACTGGGCAAATTTCAATCCCTGCTTTAGCTCAGTGCAGTGAGCTGAGATCAGGCACCAGAAGA
GGCTCCCCAGCTGTAACCTCTAGTGCAGTTACCTTCGGGCCAAACTATACATGTCCAGGGAGTAATTCAGACACCA
CAGCCATGGGTATTTCAGTCATCAGAAATACACACCGTTTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCA
GAATCAGAAGGTGAATTGATTCTCATAAACGTAGAGAAATCCTTTCACGAAGACCCCTCTTATAGGAAAATACTG
AATGAAGTGTCTCTGATGTGCCTGGTGTTCCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCT
AGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGT
GGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGA
GCTCCTCCACCAGGTGCTACAATTGTACAGTACGCAGCACAAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCA
GGCAGCCAGGTTGTTGTTCAAGCTGCCACTGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTGCTGCTTTG
CCACAGGGAGTGGTGATGGCTGCATCGCCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACGC
AAACGAGAGCTGAGGCTAATGAAAAACAGAGAAGCTGCCCGGGAGTGTGCGAGGAAGAAGAAAGAATATGTCAA
TGCTTTGAAAATCGTGTGGCTGTGCTTGAAAACCAAAACAAGACTCTCATTGAGGAACTCAAGGCCCTCAAAGAT
CTTTATTGCCATAAAGTAGAGTAACTGTCTTTGACTTGGACCTTGTTTACTCTAATCAAGGCAGGAGATGCAGCA
GTCCTACTTATTGCCATGTGGACTTGTGGGAAGGACACGTGTGACCCTTAAGAATCCAGTTTGGATTAGTGTGTTG
AAATTGAATTGGGAATGTTGTTCCAGGATGTGGAATGCAGCGTGATCACACTTACCGAGCTTACTTTGATCTGTT
TGTC AATAGCATGCAAAAAATGCTTTGTTGCCCTTTGCTTCTGCTTTTTTTCAGGGAAGCTGCCAAAGAATGTC
GACGTCGAAAGAAAGAATATGTAAAATGCCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTA
TAGAGGAACTTGAAACCTTGAAAGACATTGTTCTCCCAAACTGATTACTAGAAATATTTAACTATGAAGTAT
TACAGA

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FIGURE 1086

MTMETVESQHDGSITASLTESKSAHVQTQTGQISIPALAQCSSELRSCTRRGSPAVTLVQLPSGQTIHVQGVQTP
QPWVIQSSEIHTVQVAAIAETDESAESEGVIDSHKRREILSRPSYRKILNELSSDVPGVPKIEERSEEEGTPP
SIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQQFFVP
GSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAARECRRKKKEYVK
CLENRVAVLENQNKTLIEELKALKDLYCHKVE

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FIGURE 1087

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTCTGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAATTCGAGCC
ATATAAATAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTCTTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTTAAAAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCACCACCTAGTGTAATAATAAATCAAG
TAATACAATCTTAACTGTTGTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAAGGCCAAAAGTAACAGTTT
TATAGATCTTTTAGTTTCAACTCAGCTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACTTCATATTTGATCTTTTCTCTTCCAATCAAATGTCTAGGCTTGTTTGAATTCACCCCCAATGGTTT
TTCCTCTTTTATTTACTTCATTTTCTTTAATAACTTAATCTCTTCATGTTCAAGTTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAGTCAGTGAAACTGTCAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAAACAACATGGCTTGTGT
GAAACTGAGCAGGTGTTTGTTTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCACTTATTAAACATGTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

1207/2682
FIGURE 1088

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

1208/2682
FIGURE 1089

CATGCTCTGGGCGCGGCAAAGGCGGGAAGGGTCTGGGCAAAGGAGGCGCTAAGCGCCACCGCAAAGTTCTGCGCGA
CAACATTCAGGGCATCACCAAGCCCGCCATCCGACGCCTGGCACGGCGTGGAGGCGTTAAGCGCATCTCAGGCCT
TATATACGAGGAGACACGCGGAGTTCTTAAAGTGTTTTGGAGAATGTAATCCGCGATGCAGTTACCTACACGGA
GCACGCCAAACGCAAGACAGTCACAGCCATGGACGTGGTTTACGCGCTCAAGCGCCAGGGCCGCACCCTGTATGG
CTTTGGCGGCTGAGTGTTTTACTTACTTACACGGTTCCTCAAAGGCCCTTCTCAGGGCCACCCA

1209/2682
FIGURE 1090

MSGRGKGGKGLGKGGAKRHRKVL RDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFL ENVIRDAVTYPE
HAKRKTVTAMDVVYALKRQGRTLYGFGG

1210/2682
FIGURE 1091

ATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTGTGGAAGGTGTAGGGAGTGAA
GTCTCACATAGGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCAGTTAGCAGAATCAAGACCTACCCATC
ACGGAAGGCTCCTTGAGAGCAGTAATTTTATTACCAAACGTGGCCTAAAAGTCTGTGCTGATCCACAAGCCACG
TGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACATGATCCAGACCAAGCCAACA
GGAACCCAGCAATCGACCAATACAGCTGTGACCCTGACTGGCTAG

1211/2682
FIGURE 1092

MRLILALLGICSLTAYIVEGVGSEVSHRRTCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRLKVCADPQAT
WVRDVVRSMRKSNTNRNMIQTKPTGTQQSTNTAVTLTG

1212/2682
FIGURE 1093A

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGGCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCTTCTTCTTCTCACCTGCTTCTCACCCGGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCGCTGCTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCCCGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCTCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGCGCTGGCTGCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAGTGCCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTCTGTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCTGCTTGTATTTCAGAGAA
CAGATGATTTCTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAAATCTGGAGGTGGAAATGGA
GTTGATCTTTCACTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAAACCTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGACCTACCAAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCTTTTAAATCAAATCTACTGACTATCCCGAAGCAAAGGTCTCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTTCCAACCATGGACCAGTGTCT
ACTGGCCCTCTAACTAATCGATACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGGA
AAATCAGGTGAAGAAGAAAACATTTCTCGAAAGAATCATTCAAACCTATGGAACTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAACATTTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGCCAGTTCTTGGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTTCTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCTGTCTTCAAACATTCCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTTATACAATGACAGATCTGTTCTG
GAAATCATCATGCTGCGTCAGCTTGGAACTATATCTTTCTCGCCAGAAATACAACCTTCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTTCGTTTTTGTGCTATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTCTCGCAGAAATCAATGCCAAGGCCAAATGATGTAAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCG
CCTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAAGTTCGAGACTTGCAATTTGAA
ATGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAATCTTGGTCTGCCCATCAGTCC
ATTCATGGATCGTTCTTCTCTCACTAGCAAACTCCAAGAATCTTTATACCCACATAGTGGGTCCCCTGTG
TAACCTCTATGATGCTGCTGGTTTGTACAGGTCACTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGG
TGATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAAATGGAAAACAATCTAAATCCAAAACCAAG
AAGGAAAAGCAGACGGCGAATATTTGTGCTAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAAT
CGTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAACTGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGA
TGAGATTGAGTAATTGAAGAGGCAGATGAAGAGGAATAGCGACAGTTTGAAGTAAAGAAAAGTCAATTGAAGA
AGCCCAGAGGGTTGTGCCAGGGGCAGAAATCATTGCCTAGTGTTCACCGGCTGACTCTCAACTGACCATTCCCA
TGTGGACAGGCCTTAATACTGTGAGAGGATCCTTGTCTGCTGGCAGTTTCCCACTCCTATGCATTTTACAGGA
ACTAGAAAATATTCTTAAACCAAAAAATACCATCCGTGTTGACCCATGTTGCAGAGCCCTTACTTAAATCCTTCA

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FIGURE 1093B

CTGGTGTATGAATACTTTGTCATAATGCTGCTTTGCTGGGTAGTGAGCTCTTATTTTTCTACTGGGGGTCAGCTAT
AACTAAAACTCAAGTGACATATTTTCAGTTACCAAAGTGGCCAGGAACCTTTTGCTTTTATGAAAAATAGATTTCAT
ATTGTATTTCCAGTGTGTCTTTTATGTCTTTGAATGTTTTGGAGAAAAGTCTATGCCTGTCTAAAAATGAATCC
AGIGTTGCCTTTCTGAGGGATTTCTGCTCAATGCAATACACTGTTCAGTGTCTATTCTCCAGCTAGGTTTATCCA
TGAAGGACTGAGTGACCTTTGTTGTATTTAACAAAATCCAGGTGCATCAATTTCTGATGCTTTTACTATTGTGT
ATTATCTACTATGTGTGTTTTATTTCTGCTGAGAGTATTCAGGTTTGCCATGGACATCAGAAGTTTGAATTCAG
TCTTATCTTATGTTCCATGGCTGAATTTTAAAGCTGTTTAGGTTTAAACAATGAAGGGATTTATTCTTTAGTCAAA
ATTGTTGTTTTTACTCTAGCTCAGGATTCGTATTTTAAAGATTTAGTTAATATAAACACAGCACAGATTTGTCA
GAAGAAAAAAATTTGCTGTAATACCAAACCTCATCAAAGATACAGAAAAAAGAAATATAGTGAGCCCT
AAAGGACACATACATTGAATAAATAATTGGAACATGTGGTTATCTTTAGATCCACATCTTAGCTGTCTATTGTTT
ACTCTAAAACCTGATGTTTCTCTGTTAATTTCCCTCTGCCTAAAGACTACATGACAGAAATGACCTATCACT
ACTTATTATTCTGAAGCCTAAGTGAAGACTGATTTCTGAGAACAAGTAAAGAACTGGAATCTTATTTTTTCAT
ATAAAATCTAAATGTGTTAATAAATCATTTCATACAAAAGTACATTATTAAATAACCACATTATTAAATAATT
GCAAGAAATGGACCATATTTACAATGTTTTGTAACCTTGCTAGTGTGTGGATATGTACCCTACTTGTGAAATAC
ATTGGAAGATATAAAGAGCAGCCAAAATGATGGCAAAATGGTAGGCTAATATTTTCTATTATTATTGGAGAACAT
ATCATATTTTGAATCATGCAATTTTGCACACAGTGAAACCATTAAATTTTCCAAGGTAATTCCTTTAGAATATGG
TATTGGCATGCAGTTTCTTACTTATCTAGAATATTTGGCTTATCTGAAAGATATCAATTTAAGATCTCTGGAAGT
GTTAGAATTTTGTATCCTTCACAGTGTCAATATTTAATGAATCACTAAGCTTTATTTATTAGACGTGTTGAGTGA
GTGCTGAGTTTCTTGCTGCCACTTTTGTTACCATGTGCACACACTATGTGTAAACCAGTCCCACCCTTATTACT
AATAAAATTTTGACTGATAATTTATATTTGCACCTTACAATATATATATCCTGTCCTTATATTTCTCTAGAGTACA
TTTTCCATCATGTTTAAAGTGATTTCTGCTATTATTTCTCTCTCCTGCAGAATACATACAAGTGTATGTGTATAAA
GTCATACATGTACAAGCATGCATATTGAGATTGAATCACATTTCCATACTGTCTGTATTTTATTGGGTTTTATA
TTGGGTTTCTTTAGTTTATGTTGTTTTCTCAAAAGCAGCATTTTAAATTACGAATACTGGACTTATTGGATTTAA
TTATAAATCCAATTACTACTGGAACTCATTTTTACATAATATAGTCCTTAAATTATTTAACCCTTGCTAAGTAA
TTGACATATGTAACAATAACTAGCCTAAAGAAACCCAAAAAAGTATCTCTCCGAGCTGAAACTTAAAAATTG
TAAGTGTAAGAAAGAATGTGAGAATATATTAAATGCACACTGTACCATTAGATGAAATCTTACTTGAGAAATTGC
CATAAGCCATATTACAGATCTTACTTTGATTGTTACTGAATCAGATTAATTTCTTGTATAATAATTTTCATCAT
AAATTTTCTATTTTAAAGCCGCTGGTACTAGAAATATTCTTTAATGCTATATCTATGTACCTACTGACACATT
TTTCTCCATAAAAGTACTTTTAAAAATTACTTCATGATTTG

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FIGURE 1094

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDLAAFVLALLLGAEPESWAAGAAWLRTLLSVCSHSLSPLFSIACAFFFLTCTFLTRTKRGPGRSCG
SWWLLALPACCYLGDFLVQWWSWPWGDGDAGSAAPHTPPEAAAAGRLLLVLSVCVGLLLTLAHPRLRLRHCVLVLLL
ASFVWWVSFTSLGSLPSALRPLLGLVGGAGCLLALGLDHFFQIREAPLHPRLSSAAEEKVPVIRPRRRSSCVSL
GETAASYYGCKIFRRPSLPCISREQMILWDWLKQWKPHYQNSGGNGVDLSVLNEARNMVSDLLTDPSPQPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTPQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNGPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSFVNSSNHGPVS
TGPLTNRSPIEF PDTADFLNKPSVILQSLGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTSES DGTDCSCG
KSGEEENIFSKE SFKLMETQQEEETEKKDSRKL FQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFP I F E L V E K M G E K S G R I L S Q V M Y T L F Q D T G L L E I F K I P T Q Q F M N Y F R A L E N G Y R D I P Y H N R I H A T D V L H A V W
Y L T T R P V P G L Q Q I H N G C G T G N E T D S D G R I N H G R I A Y I S S K S C S N P D E S Y G C L S S N I P A L E L M A L Y V A A A M H D Y D H
P G R T N A F L V A T N A P Q A V L Y N D R S V L E N H H A A S A W N L Y L S R P E Y N F L L H L D H V E F K R F R F L V I E A I L A T D L K K H F D
FLAEFNAKAK

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FIGURE 1095

GTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACTCATCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGGAATGGTGGGCACAGTGGCTGTCACTGTGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGTCTATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAACCCAAAAAGTTATCACACCGGAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCAGACATAGCATTATGTACATAG
ATGAGTGTAACTTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCACTATTGCTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCCATTTATAATGAAGATTAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAACTTCTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTTCTTGTGTATTAAATTAACATTTTTTAAAAAGCAGATATTTGTCAAGGGGCTTTGCATT
CAAACCTGCTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAATATTTTTGTTTTGTATTTGAAGAAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAAGAGCAGAAAAATATGCTCTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATGTCATTTTTTGTTCTGTGAAAAATAAATTTCTTCTTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAACTGACAATCCAATTTGAAAGTTTGTGTGCGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTTGTACATTTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1096

MATHALEIAGLFLGGVGMVGTVAVTVMQWRVSAFIENNIVVFENFWGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1097

CCACGCGTCCGGTTATCAGCAGGATCCATGCCGCCAGAGTAAAGCTTTCTACCCTTTACTCCCTGCAAAGAAACA
AGAGTGCTTATCCCAGCTAAGCTCCAGGGTTAAACTCTATGCTGGTCATTCCCTTCAGGATTGGCACTCACCA
ACATACCCCTTCTTTCAAGTGAAAAGGCATCTCTTTAATGGTCCTGACCTTTGGAATAGGAAGCATGTACCCTGG
ACAGAGCACTTCAAAGTAGAGGAACCATAAATCCATGGCTAACCTTGACAAATACACTGAAACATTCAAGATGGG
TAGCAACAGTACCAGCACTGCTGAGATTTACTGTAATGTCACTAATGTGAAATTTCAATACTCCCTCTATGCAAC
CACCTATATCCTCATATTCATTCCCTGGTCTTCTGGCTAACAGTGCAGCCTTGIGGGTTCTGTGCCGCTTCATCAG
CAAGAAAAATAAGCCATCATTTTCATGATCAACCTCTCTGTGGCTGACCTTGCTCATGTATTATCTTTACCCCT
CCGGATTTACTATTACATCAGCCACCCTGGCCTTTCCAGAGAGCCCTTTGCCTGCTCTGCTTCTACCTGAAGTA
TCTCAACATGTATGCCAGCATTTGTTTCCTGACGTGCATCAGTCTTCAAAGGTGCTTTTTCTCCTCAAGCCCTT
CAGGGCCAGAGACTGGAAGCGTAGGTACGATGTGGGCATCAGTGTGCCATCTGGATCGTTGTGGGGACTGCCTG
TTTGCCATTTCCCATCCTGAGAAGCACAGACTTAAACAACAACAAGTCCTGCTTTGCTGATCTTGGATACAAGCA
AATGAATGCAGTTGCGTTGGTCGGGATGATTACAGTTGCTGAGCTTGCAGGATTTGTGATCCCAGTGATCATCAT
CGCATGGTGTACCTGGAAACTACTATATCCTTGAGACAGCCACCAATGGCTTTCCAAGGGATCAGTGAGAGGCA
GAAAGCACTGCGGATGGTGTTCATGTGTGCTGCAGTCTTCTTCATCTGCTTCACTCCCTATCATATTAACTTTAT
TTTTTACACCATGGTAAAGGAAACCATCATTAGCAGTTGTCCCGTTGTCCGAATCGCACTGTATTTCCACCCCTT
TTGCCTGTGCCTTGCAAGTCTCTGCTGCCTTTTGGATCCAATTCTTTATTACTTTATGGCTTCAGAGTTTCGTGA
CCAACTATCCCGCCATGGCAGTTCTGTGACCCGCTCCCGCCTCATGAGCAAGGAGAGTGGTTCATCAATGATTGG
CTAAAATTAAGATATCTCTTTAATTACGCCTTTGTTTACCTACGTTTCCTGTCTTTTTCCAAAGGCCAGAATTGT
CAACCAATTTCTTTAATTGAACATTGTAAAAACAGGAATAAGTACTTTGTGTAATATTCACAGTCAACAGGGG
TGTGATGGTGAAGGCAGAGTGTGAAAAACGTGAGAGAGGAAGAGAAAATAGATTTACCTGATT

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FIGURE 1098

RNHKSMANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLCRFISKKNKAI
IFMINLSVADLAHVLSLPLRIYYYISHHWPFORALCLLCFYLYLNMYASICFLTCLISLQRCFFLLKPFRRARDWK
RRYDVGISAAIWIVVGTACLPPILRSTDNLNNKSCFADLGYKQMNVALVGMITVAELAGFVIPVIIIAWCTWK
TTISLRQPPMAFQGISERQKALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISSCPVVRIALYFHPFCLCLAS
LCCLLDPILYYFMASEFRDQLSRHGSSVTRSRMSKESGSSMIG

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FIGURE 1099

GGCACGAGGGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAGAAATTC
AGACTCTCCTGTCCACAAAACCTCCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCCAGCCCGATGCATATG
ACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGG
CAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGAAAGGATGAGGATG
AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGC
GTTTGCTTTCCTACAAAGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTG
ACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTGAGGCGGGGAGGACACAGAGGAGAGCGACAGCCAGATAGCC
ACTCGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTG
GGAAAGGGTTGATAAGCGCAAGGAAGAGCTGGAAGAGCTACCAGAGACGAGCTGCCCTACACGTTCCGAGCCC
CTGAATCCTATGAGGAAGTGAATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAA
TTCAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGG
AATACGTTGGCGATTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATC
ATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGG
AAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTATTTGAAAATCACTGGGC
TGCTATTTCCAACCTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCA
AGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGTGCTGCCTGTTCTGGAGTATGTGGCTT
TGTCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAA
GCCAAGGTTCCACTCTGGTGCACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTCTGCTAGAG
AGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGTCTCGAATCCCGACCTCAGGTAATCCACCT
GCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACCCAGCCAAAAAGTAATTTTTTTTAGAGTAATAATGCT
ATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACCCTGCTGCGGTTTGTCTGTGTTAAACGTCACC
TGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTT
CACTGCGTCTGGACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCC
TTCATGTGTAGAATTTACTGTTGTTATGCAAATTATATTTTCAATTATAAATGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1100

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTTCGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTA
AAAACAGGATGACCAAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAAATTGTGAAAAATAATCAGCAGCCGGATGTGGATAACCCTTTCAAATTTCTCCTGGGGCTCCAAACCA
CCCCACTGGTGTTCTCCTGCTGACAGTGATTTCAATTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTTCAAGGAGACCAGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGAGCACTTTCCCAATGCC
ATTCCTCCTCACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTTGGGCCAGCAACA
AGTTCATTATACCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTCACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGTGGCCAGACTGTTACCTGGGTTCCTATATCTTCTCACTAGGCAAGTCTTGCAGGC
CTGGGCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGTCTACCTCAGACTGATGAAGGA
GCTAACACCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCAGCAATTCTCCATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCTTGGCTACAACCACTACTA
ATGTCCCTTCTCTTCTGCCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAAGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAATACCTACTAATATACTCCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCTGCACAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAGGAAAACCCATAGGTGGAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACTCAAATGGCCTCTGTGTCATATGTCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAACTGCTGGAATTACATAAATATAATTGAGAAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAAACCCAATCCAGGAAAATAAGAATAACAGTAAAGTGTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAGAATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAACTGAAGATTGGTTCTCTAAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1101

MLVNELNHSKEKECQYEKEKAEREVAVRQLQQKRDDVLNKGSA TKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGD TQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSMLQVFES

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FIGURE 1102A

ATGCGCGCGCGCGCGGGGAATCGCGCCTCGTCGTCGGGATTCCCGGGCGCCAGGGCTACGAGCCCTGAGGCAGGC
GGCGCGGAGGAGCCCTCAAGGCGAGCAGCGCGCGCGGCTGCCGCGGGACTGCTGCGGGAGGCGGGCAGCGGG
GGCGCGGAGCGGGCGGACTGGCGGCGCGCGCAGCTGCGCAAAGTGGGAGTGTGGAGCTGGACCAGCTGCCTGAG
CAGCGGCTCTTCCTTGCCGCTCACCGCCGGCCTCCTCGACTTCCCGTCCGCGAGCCCGCGGACGCAGCGGGG
AGTGGGACCGGCTTCCAGCCTGTGGCGGTGCCGCCGCCACGGAGCCGCCAGCCGCGCGCGCGCCACCTTACC
GAGTCGGTGGCGGCGCCGACAGCGCGCCTCGAGTCCCGCAGCGGCCGAGCCCGGGGAGAAGCGGGCGCCCGCC
GCCGAGCCGTCTCTGCGAGCGGCCCGCGCGGTGCTGAGATGGAGAATAAAGAACTCTCAAAGGGTTGCACAAG
ATGGATGATCGTCCAGAGGAACGAATGATCAGGGAGAACTGAAGGCAACCTGTATGCCAGCCTGGAAGCACGAA
TGGTTGAAAGGAGAAATAGGCGAGGGCCTGTGGTGGTAAAACCAATCCAGTTAAAGGAGATGGATCTGAAATG
AATCACTTAGCAGCTGAGTCTCAGGAGAGGTCCAGGCAAGTGGCGCTTACCAGCTTCAAAGGCCGACGCAGT
CCTTCTCCTGGCAACTCCCCATCAGGTCGCACAGTGAATCAGAATCTCCAGGAGTAAGGAGAAAAAGAGTTTCC
CCAGTGCCTTTTTCAGAGTGGCAGAATCACACCACC¹CGAAGAGCCCTTACCAGATGGCTTCTACCATATAGC
CCTGAGGAAACAAACCGCCGTGTTAAACAAAGTGTGCGGGCCAGACTGTACTTACTGCAGCAGATAGGGCCTAAC
TCTTCTGATTGGAGGAGACAGCCAGACAATAATACCGGGTGTATTATGGGCCTCAGAACTGCAGCTGTGCA
CGTGGAAACATTCTGTATTCTGCTATTTGTGATGCTCCGGGTGTTTCAACTAGAACCTTCAGACCCATGTTA
TGGAGAAAACTTTAAAGAATTTTGGAGTTGAGAGTTTGTCCAGAAATATCACAGTAAGCGTAGCTCAAGGATC
AAAGCTCCATCTCGTAACACCATCCAGAAGTTTGTTCACGCGATGTCAAATCTCATACTGTGTCATCTAGT
ACTTCTACATCTAGTTCAGAAAACAGCATAAAGGATGAAGAGGAACAGATGTGCTCTATTGCTTGTGGGCATG
CTTGATGAAGAAAGTCTTACAGTGTGTGAAGACGGCTGCAGGAACAAGCTGCACCACCTGCATGTCAATTTGG
GCAGAAGAGTGTAGAAGAAATAGAGAACCTTTAATATGTCCCTTTGTAGATCTAAGTGGAGATCTCATGATTC
TACAGCCACGAGTTGTCAAGTCTGTGGATTCCCTTCTTCCCTCAGAGCTGCACAGCAGCAAACCGTACAGCAG
CAGCCTTTGGCTGGATCACGAAGGAATCAAGAGAGCAATTTTAACCTTACTCATTATGGAACCTCAGCAAATCCCT
CCTGCTTACAAAGATTTAGCTGAGCCATGGATTGAGGTGTTTGAATGGAACCTGCTGGCTGCTTATTTCTAGA
AACTGGAATGTGAGAGAGATGGCCCTCAGGCGTCTTTCCCATGATGTGAGTGGGGCCCTGCTGTTGGCAAATGGG
GAGAGCACTGGAATTTCTGGGGGAGCAGTGAAGCAGCCGAGTGGGGGAGCCACCAGTGGGTCTTCCAGACC
AGTATCTCAGGAGATGTGGTGGAGGCATGTGCGAGCGTTCTGTCAATGGTCTGTGCTGACCTGTCTACAAAGTG
TAGCTTGCTGCTTTAAAACATTGAGAGCCATGCTGGTATATACTCCTTGCCACAGTTTAGCGGAAAGAATCAAA
CTTCAGAGACTTCTCCAGCCAGTTGTAGACACCATCCTAGTCAAATGTGCAGATGCCAATAGCCGCACAAGTCAG
CTGTCCATATCAACACTGTTGGAACGTGTGCAAGGCCAAGCAGGAGAGTTGGCAGTTGGCAGAGAAATACTAAAA
GCTGGATCCATTGGTATTGGTGGTGTGATTATGTCTTAAATTGTATTCTTGGAAACCAAACCTGAATCAAACAAT
TGGCAAGAACCTCTTGGCCGCTTTGTCTTATAGATAGACTGTTGTTGGAATTTCTGCTGAATTTTATCCTCAT
ATTGTGAGTACTGATGTTTCAAGCTGAGCCTGTTGAAATCAGGTATAAGAAGCTGCTGTCCCTCTTAACCTTT
GCTTTGCAGTCCATTAATAATTCCCACCTCAATGGTTGGCAAACCTTCCAGAAGGATCTACTTGAGTTCTGCAAGA
ATGGTTACTACAGTACCCCATGTGTTTTCAAACCTGTTAGAAATGCTGAGTGTTCAGTTCCACTCACTTCACC
AGGATGCGTCGCGCTTTGATGGCTATTGCAGATGAGGTGGAATTTGCCGAAGCCATCCAGTTGGGCGTAGAAGAC
ACTTTGGATGGTCAACAGGACAGCTTCTTGCGAGGCATCTGTTCCCAACAACCTATCTGGAAACCACAGAGAACAGT
TCCCTGAGTGCACAATCCATTTAGAGAAAACCTGGAAGGATTATGTGCTACAAAATTGAGTGCCAGTTTCAGAG
GACATTTCTGAGAGACTGGCCAGCATTTAGTAGGACCTTCTAGTTCAACTACTAATACTACTACTACAACAACAGA
GCAACCAAAGCCAATGGTTCAAACAAAAGGCAGACCCACAGTCAGTGTGAACTCCTCTCCTTTATCTCATCA
TTCCCAATTAATGTTTCCAGCCTTGTCACCCCTTCTTCTTACCCCATCTGTACCAGCTGGCACTGCAACAGA
TGCTCTAAGCATAGACTTCAGGGATTCAATCCCTGCAGAATACCTTCTGCATCTCTCAAACACAGCGCAAGTT
TTCTCTACAATTCACAGAACTGTCTGAAAACAAAGACTCAGATAAATTTCCCGAGTCTTTACTCAGTCAAG
ACCTTGCCCTCCAGTAACATACACAGGCCAAAGCCATCTCGACCTACCCAGGTAATACAAGTAAACAGGGAGA
TCCCTCAAAAAATAGCATGACACTTGATCTGAACAGTAGTTCCAAATGTGATGACAGCTTTGGCTGTAGCAGCAA
TAGTAGTAATGCTGTTATACCCAGTGACGAGACAGTGTTCACCCAGTAGAGGAGAAATGCAGATTAGATGTCAA
TACAGAGCTCAACTCCAGTATTGAGGACCTTCTTGAAGCATCTATGCCTTCAAGTGATACAACAGTAACTTTTAA
GTCAGAAGTTGCTGCTCTCTCTGAAAAGGCTGAAAATGATGATACCTACAAAGATGATGTGAATCATATCA
AAAGTGCAAAGAGAAGATGGAAGCTGAAGAAGAAGAAGCTTTAGCAATTGCCATGGCAATGTGAGCGTCTCAGGA

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FIGURE 1102B

TGCCCTCCCCATAGTTCCTCAGCTGCAGGTTGAAATGGAGAAGATATCATCATTATTCAACAGGATACACCAGA
GACTCTACCAGGACATACCAAAGCAAAACAACCGTATAGAGAAGACACTGAATGGCTGAAAGGTCAACAGATAGG
CCTTGGAGCATTCTTCTTTGTTATCAGGCTCAAGATGTGGGAACCTGGAACCTTAATGGCTGTAAACAGGTGAC
TTATGTCAGAAACACATCTTCTGAGCAAGAAGAGTAGTAGAAGCACTAAGAGAAGAGATAAGAAATGATGAGCCA
TCTGAATCATCCAAACATCATTAGGATGTTGGGAGCCACGTGTGAGAAGAGCAATTACAATCTCTTCATTGAATG
GATGGCAGGGGGATCGGTGGCTCATTGCTGAGTAAATATGGAGCCTTCAAAGAATCAGTAGTTATTAACACAC
TGAACAGTTACTCCGTGGCCTTTCGTATCTCCATGAAAACCAAATCATTACAGAGATGTCAAAGGTGCCAATTT
GCTAATTGACAGCACTGGTCAGAGACTAAGAATTGCAGATTTTGGAGCTGCAGCCAGGTGGCATCAAAGGAAC
TGGTGCAGGAGAGTTTCAGGGACAATTACTGGGGACAATTGCATTTATGGCACCTGAGGTACTAAGAGGTCAACA
GTATGGAAGGAGCTGTGATGTATGGAGTGTGGCTGTGCTATTATAGAAATGGCTGTGCAAAACCACCATGGAA
TGCAGAAAAACACTCCAATCATCTTGCTTTGATATTTAAGATTGCTAGTGCAACTACTGCTCCATCGATCCCTTC
ACATTTGTCTCCTGGTTTACGAGATGTGGCTCTTCGTGTTTGTAGAACTTCAACCTCAGGACAGACCTCCATCAAG
AGAGCTACTGAAGCATCCAGTCTTTCGTACTACATGGTAGCCAATTATGCAGATCAACTACAGTAGAAAACAGGAT
GCTCAACAAGAGAAAAAAACTTGTGGGAACCACATTGATATTCTACTGGCCATGATGCCACTGAACAGCTATG
AACGAGGCCAGTGGGGAACCCTTACCTAAGTATGTGATTGACAAATCATGATCTGTACCTAAGCTCAGTATGCAA
AAGCCCAAAGTAGTGCAGAACTGTAACTGTGCCTTTCAAAGAAGTGGCCCTAGGTGAACAGGAAAAACAATGAA
GTTTGCATGACTAAATTGCAGAAGCATAATTTTATTTTTTGGAGCACTTTTTCAGCAATATTAGCGGTGAGGG
GCTCAGGATCTATTTTAAATATTTCAATTATTCTTCCATTTTCATATAGTGATCACAAGCAGGGGGTCTGCAATTC
CGTTCAAATTTTTTGTCACTGGCTATAAAATCAGTATCTGCCTCTTTAGGTGAGAGTATGCTATGAGTAGCAAT
ACATACATATATTTTTAAAGTTGATACCTTCTTTATGACCCACAGTTGACCTTTATTTCTTAAATACCAGGGCA
GTTGTGGCTCATTGTGCATTTTACTGTTGGCCCAATCATTTCGTTTTTGGAAATTATGGTTTTGTATTTTCATGT
TTATTTACATTCATTTTTGTTTATTAGGGAAAGCTGATCTTTTTTCAAACCAGAAAAAAAATGAAGTAGAT
ATGAAGTAGAGTTCATTAAATATCTTGCTATTGTGAGAGTTTTTAAATATAGACTTAATTTTGTTTTTTAAAT
TGGAATACAATAAAGTACTACCTACATTTGAGTCAGTCACCACCTTATTGTGCAGGTTAAGTACAAGTTAACTA
AAAAATAAAGTGTCTCTGTTGCAACTCACAACCAAGATCAAGATTACCTTAAAAATTTATTTGAATTTTTTAGA
TGTTTTGGTTGTCAAAGTGTAGGAACTTCACAACATTTAAGTCTTACTCTGTATGTAACAATCCATCATTACC
TTCACTACTGGTAAATAACATAGAGCTGCCATTTTCTTTTACCATGCATCATCTCTTTACAGTAGGCCTGGCAGA
TCATTTTTTAAAAAGATTATTCAACTACCAATCAGTAATGTTTTTAAACAGTACATTTGCTTTGAACTTGGAAAA
TGTGTTTCAGAAAGAAAAATGGAATTGAATTTCAATTATACACTAATTCCTTGGATTTTGCACAGTTACCTAACGG
TTTTAGTCTGGAGTTAAATTCAGATGCATGGAATCCTGAAGGAAATGGTAGCTTTTTAATCTTTTTGTGTGTGT
GTGAGTCTTTTTAAATCAAGTACTGATTAACATTTAAGTACAACCTTGAGATTTTAGTTTTAACTCTTCAGAAGCC
AGTGTGAAATAGAATTGGTTATTCTCAAAGACTCAGGATAAACTAAATAAGCTATATATAGAGTACATTTAAAT
GTACAACACAAATTGGAAGTAAATAAGTTACAAGATAAGTTTACAGGGATATATTGCTTACAATTTTTAAAGG
CAGTTTGTTTTTTATGTGAATATGTTTCTTAGTGAATTTTACATTCCTTTGTTTTGGAAGATTGGCGATATTTG
AAGAGTTAAAAATAGTACAGAAATGTGAAGTTTGGTATCTCTAAATGTGTTGTACTTGACTTTCTTTTTATTTT
TTTTTATTTTTTTTGACTACTTAGAATTTTACAATTTCTAATAAGATTGTTTCCAAGTCTCTCATGTGCAAGCTT
TAAAGGATGCACCTTGCCATTTTATGTACTGGAAGATCATTGGTCAGATGAATACTGTGTCTGACAAAAATGTA
AACTGTATAAACTGAGGAACCTCAGCTAATCAGTATTACTTTGTAGATCACCATGCCCACCACATTTCAAACCTCA
AACTATCTGTAGATTTCAAATCCATTGTGTTTGAGTTTGTGTCAGTTCCTCAGCTTGCTGGTAAATTGTGGTG
TTTTGTTTTTTGTTTTGTTTTCAATGCAAATGTGATGTAATATTCTTATTTCTTTGGATCAAAGCTGGACTGGA
AATTGTATCGTGTAATTATTTTTGTGTTCTTAATGTTATTTGGTACTCAAGTTGTAATAACGCTCTACTACTGTT
TATTCAGTTTCTACTACCTCAGGTGCTCTATAGATTTTCTTCTACCAAAGTTCACTTTCACAATGAAATTATA
TTTGTCTGTGACTATGATTCTTAAGATTTCCAGGGCTTAAGGGCTAACTTCTATTAGCACCTTACTGTGTAAGC
AAATGTTACAAAAAAGACAAGAAAAAATCTCTGGGTTAAGAAAATTTGGCTTAAATGTATCCTTTGTATTTT
AAATATATTGAGATATTTTAAATTTTACCCATTGAACCGATTTTATAGTATTGTACCTATTTTGGTG
TTTTTGTCTTTATAGTAAATAAAAGTTTTTGAACAAAAAAAAGTCGACGCGG

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FIGURE 1103

MAAAAGNRASSSGFPGARATSP EAGGGGGALKASSARAAAAGLLREAGSGGRERADWRRRQLRKVRSVELDQLPE
QPLFLAASPPASSTSPSPEPADAAGSGTGFPVAVPPPHGAASRRGAHLTESVAAPDSGASSPAAAEPGEKRAPA
AEPSPAAAPAGREMENKETLKGLHKMDDRPEERMIREKLKATCMPAWKHEWLERRNRGPVVVKPIPVKGDGSEM
NHLAESPGEVQASAA SPASKGRRSPSPGNSSGRTVKSESPGVRRKRVSPVPFQSGRITPPRRAPSPDGFSPYS
PEETNRRVNVKVMRARLYLLQQIGPNSFLIGGDS PDNKYRVFIGPQNCSCARGTFCIHLLFVMLRVFQLEPSD PML
WRKTLKNFEVESLFQKYHSKRSSRIKAPSRNTIQKFVSRMSNSHTLSSSSTSTSSSENSIKDEEEQMCPICLLGM
LDEESLTVCE DGC RNKLHHHCMSIWAEECRRNREPLICPLCRSKWRSHDFYSHELSSPVDS PSSLRAAQQQTVQQ
QPLAGSR RNQESN FNLTHTYGTQQIPPAYKD LAEPW IQVFGMELVGCLFSRNWNVREMA LRRLSHD VSGALLANG
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVL SMVCADPVYKVYVAALKTLRAMLVYTPCHSLAERIK
LQRLLPVVD TILVKCADANSRTSQLSISTLLELCKGQAGELAVGREILKAGSIGIGGV D VYV LNCILGNQTESNN
WQELLGRCLIDRLLLEFFPAEFYPHIVSTDVSQAEPVEIRYKLLSLLTFALQSINN SHSMVGKLSRRIYLSSAR
MVTTPVPHVFSKLL EMLSVSSSTHFTMRRLMAIAD EVEIAEAIQLGVEDTLDGQQDSF LQASVPNNYLETTENS
SPECTIHLEKTGKGLCATKLSASSEDISERLASISVGPSSSTTNYYYNNRATKANGSNKRQTPQSVFELL SFISS
FPINVSSLVNPFFFYPICTSWHCNRCLKHRLQGFIPCRIPSASPQTQRKFSLQFHRNCPENKDSDKLSPVFTQSR
PLPSSNIHRPKPSRPTPGNTSKQGDPSKNSMTLDLNSSSKCDDSGCSSNSSNAVIPSDETVFTPVEEKCRLDVN
TELNSSIEDLLEASMPSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHNQCKEKE MEAE EEEALAIAMAMSASQD
ALPIVPQLQVENGEDI IIIQQDTPETLP GHTKAKQPYREDTEWLKGQQIGLGAFSSCYQAQDVGTGTLMAVKQVT
YVRNTSSEQEEVVEALREEIRMMSHLNHPNIIRMLGATCEKSNNLFI EWMAGGSVAHLLSKYGAFKESVVINYT
EQLLRGLSYLHENQIIHRDVKGANLLIDSTGQRLRIADFGAAARLASKGTGAGEFQGQLLGTIAFMAPEVLRGQQ
YGRSCDVWSVGCAIIEMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLQLPQDRPPSR
ELLKHPVFRTTW

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FIGURE 1104A

GTTTAGTGTTAACCTCAGCTACACTGAAGGAATAGACCTTAGTCCTCACAAGTATAAGTTCTAGCTTGGGAAGCCT
GGGTTCTGCAGTAGCTGTGGAACCTTAAGCCTCTGAGCTCAGGGATGCAGAGGCATTGAGTTACTACCAAGGGCCT
GATCTTTTCTTTAGCAGGCATCTGTGTTAATTGTTTCAAAGGTGGTGATCAGTTTTACAGCCTATTATAAAGGA
GATTTTTGCCCTACTATAAACTAATCCCCCTGAAAGAGTGAGTAAACATAACTTTTTGTGTGTGACTTCCACAA
GGGAAGGAGTTGGCACCTTACACTCTGACTTTTGATTGAGTCGTCCTTCTTGAGCCATTTTTGCAGGGGATCAGTT
TGGAGTGGGCGTTAACAATGTTATTCTTTTTTCTTCTCCAGAACACCTTCCACCATGACCACCTCAGCAAGTTC
CCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATCTG
GATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAGTT
GCCTGAGTGGAAATTTTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCTGC
TGCCATGTTTCGGGACCCCTTCCGTAAGGACCCTAACAAGCTGGTGTATGTGAAGTTTTCAAGTACAATCGAAG
GCCTGCAGGTGTGTTATAGCACAGCTATGGATAACCCCTCCTCAATCTGTGAATGCTGTGAAGGGGAGGGAGAAGA
CATTCTGAAATCAGCATTGGGAAGACTAGGCAATTTGAGCACTATTTTAAGAATCTGAGTGATTCTTTTCCCTGA
ACTTCTGCTTTGAGGAAGAGATAATATGGCCCATCTTTCTATGGTCTTCTCTGTGTGGTTGCATAAAATAGCATTG
GATTTGTCCAGATCTGTTTGGCGGTCTTGGAGTCCCCAGTAACAGCCTTCCCTGCCTGGAATGTAGGCCAGGACAA
ATGTAAACCAATGGACAAATGTTTCTCAAAAATTATAGAATGGCTCCAAGTGCCTGAGAAATGAAGAATAAATCT
GACAACCAAGACAGCTGTCTTGTGAATAGAGGGTTAAGTGCCTGGCATTGGTGCTTGGGAGGTGGCCAGAATG
CAGATAAGGTGAAAGTTGCCCTGTCTAAATCCACTCCCATGTGACTTGGTTGTAAGTGAAGTTAGTTAAACTG
AAGTCTTTCAGAGTCTTCTACAGATGTACAATTAACAGCTTCTCTCATTTTTCTGACTCGGTGATCCCAAGAAG
GCCTATACGGGTGAGTTCATACCATAGTGACACCTCAGTTGTATAGAATCCAAGGACTATTCTCCCATCAGCA
TCGGTATTGAGCATCTATGCTTTAGATCCCTGATGGCGTATTATTGACTCTTTTTCTAGAGACCAATTTGAGG
CACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCCTC
ATGGGGACAGATGGGCACCCCTTGGTTGGCCTTCCAACGGCTTCCAGGGCCCCAGGGTAAGTCTCCTTGGGTT
AGAGGTGAAATCCAGAAGTGTCTAACTGTGAGGAATGCCCTTCCAGGGATGGGAATGACTTTCAGAATCA
AGAAGCAAAATAATACAGTAAAGGCGAAACAGCCCTCACATCACCAGTCCAAAATGGATATGAATATATAAA
GTAAGGTTTTAGGGGGAACGTTTGGCCCCACTGAAGCTGTGGTGAAGAGGAACCTCCCTATTGCCCTCCCCTGC
CCCGCACCTGCAGATGAAGGCAAGGATAGTGATTCAAGAGGGCAAGGCTTAAGGGCCTTCTGATCTCTGACTTTG
GGATTCTCTGGATTCTTGACTCTTAGTGTTTTGTCTGATGCTTCTGTAGGTCCATATTACTGTGGTGTGGGAG
CAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCATTACCGGGCCTGCTTGTATGCTGGAGTCAAGATTGCGG
GGACTAATGCCGAGGTGATGCCCTGCCAGGTAAAGTATAGCTCCAATCCATCAATGAAGAAGGGTAGGTAGGTGTA
CATAGGACTTTTGTAGTAAGGGCTGCTGATACCACTCACTAACCCTAAGAACGGGTGGAGTACAG
GTGAGAAGAGAACAGGTTTAGGAGATTCTGAGTTGGAGTGAGCAGTTAGCTTTGTTTTAATGGCCAAGCTTCTCG
TTTCTAGTGGGAATTTGAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCGTTTCAT
CTTGATCGTGTGTGTGAAGACTTTGGAGTGATGCAACCTTTGATCCTAAGCCCATTCCTGGGAAGTGAATGG
TGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTGAGTACCTTCTGCTGG
GGCCATCTTTAATCTCCTGTGGCAGAAAATTTGGGAGGAGACTTAGCAATCTCTCAGCAAAAGTCTCCTTTGCAGG
ATGACTTGCAAATATTTGCCAAAGATGAGTAACTTGACTTCTCAGTCTGGACGTACTTTAGGTGTTGACACTTG
CCTTCACATTCTCTCAITTTGTTCCATTTGAAAAATACCAAATAATACTTCTGATTACAGTGATAAATATTTG
TTATAATTTATATAATATATATTAGTCATATATCATTATATAAATATATATCGATATATATATTTGTGACATATG
TCATGGTGACAGGGAAAAGTTGACAAATTCATGCATTTGAAAATCTTTTAGAACTAAATAGTAACAATACAGGC
ATGTGGATAAGCTTAATGCTTATGAGGGGGAGAAAGTTTCAAATGATTAGTCTTTTCAACAAACAGTAACCTTTGT
ACTGCTTGTGCGGCACTGTTCTCACCCTGAGACACACAGGTAAGAAGATGCAGCCACTGCCCTCATGAAGTATT
TGTTCTACTGGTATCATATTTTGGTGCACTTCATTCTTGGCTCCATACCTGGAGACAAGGTTGGACTGCCATCTT
TTCTGTTTACTCTAGGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCACCACTACCACATCCGTGCCTA
TGATCCCAAGGGAGGCTGGACAATGCCCCGAGCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTC
TGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGAGTGTGGCCAGGAGAAGAAGGGTTACTTTGA
AGATCGTGGCCCTCTGCCAAGTGGACCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGTCTTCTCAATGA
AACCAGGCGATGAGCCCTTCCAGTACAAAAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTCTTTC
ATCCCACTCCAACCTTCCCCCTCTCCAGTTGTCCCGATTGTAACCTCAAAGGGTGGAATATCAAGGTGTTTTT

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FIGURE 1104B

TTCAATTCCATGTGCCAGTTAATCTTGCTTTCTTTGTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCA
CACCTACCCTCCTTTTTTCCCTATCACTGAAGCTTTTATGTCATTAGTGGGGAGGAGGGTGGGGAGACATAAC
CACTGCTTCCATTTAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCGAAGGGGG
TCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGAA
ACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCA
GAGAGAATGGCTTTGGTCTCTTGCTTGTTGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGC
TTAGTATAAACTGATGGATATCCCTACCTTGAAGAAGAAAAGGTTCTTACTGCTTGGTCTTGATTTATCACAC
AAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTT
TTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTAGACAAATAGTCGGATTAGAAATAAAGCATC
TCATTTTGAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCTTTTGGGT
TTCTGCCCTGCCACCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAACACGTTACTAGCAGTCACTTG
ATCTCCGTGGCTTTGGTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGGTCAACTTGAG
CATGTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCCTTTGATA
TTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAAATCAAATTTGTAGGGTTTCTAGGTAATTTTAC
AGAATTGCTTGTTTGCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAAACA
CTTGTAATTTTGATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAA
ACCCACCTTTATTCCTTCATTTCACTACCATTTTCTGGTTCTTGTTGGCTGTGGCAGGCCAGCTGTGGTTT
TCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACT
GTGTAAGTGGCCAAAGCAGCACTTATAAATCAGCCTAACATAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1105

MTTSASSHLNKGIVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAGVL

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FIGURE 1106

GCCACAGTGTCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCCGGTCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTGTTTACAGACCACGCAAGGAGTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTCCGCATAGGCCACAGTGTCTCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTTCTAAAGAAAGTCATCCAGAAATTTTGACCGGTGGAACAAGGAAAACTGATTAAAGA
GAAATGAGCAGCATGGAAAAGTTTCCAGTCTTCAGCAGAGAAGTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTGTTTATTTGTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGTCTTGAATTGTAGGTGACTATTATATTTCCAAGAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTAAATGTGGAATGATGTTTCATAAGAATTCGTTGATGGAAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTCACTTTAGAAAGCTGAGTGTTCACACCTTATCTATGTAGAATATATTTCTTAT
TCAGAATTTCTAAAAGTTTAAGTTCATGAGGGCTAATATCTTATCTTCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACGCCATCATTACTTTTAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCTGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAAATTCCTGACTGC
TAGTTTATATAGAAATGTATTCTTTAGTTTTTAAAGTAAAGGCAAACCTTACAATGACTTGTACTCTGAAAGTT
TTGGAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGATAGGGGACCAGAGAGAGCTTGGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1107

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1108

GTTTTCAATTTCTAAATGCTAATCCTTTTTCTTTCTTCTGTCTATGAGTAGGAACCTCTCTCTCCATCCCTGTAGA
ATCTCTTGGACATGTTTATCTCATGCTTATGGGGTCCCCATTTCTTGGAGTGGGATTGACATTGGTGGATTCTGC
TTCAGTGTATCCTTCTTGCCTTCTTATTGTCATGCATGAGTCAACTGTGTGCATCCCATTTGTGCTTTCCCCAGGC
CAGTCTCTCATGCCCCATTCCATTTCCCCCTGCCCTATAGGCCTCCTTTTCATGTACTCTGCCCCAACGGTTTTGGGGG
ACAATCTGGGCCAGAAAGGGGAGCGCAGCTTGGCACCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCAT
CGGGGACCATGTGGCCAGGAGCTTTTTCAGGGCTCAGATTGGGCATGGCAGAAGAGGCAGAGAGGCCTGGGGA
GAAAGCCGGCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGCATCTTGGACGAATTCCTTCA
AACGTATGGCAGCCTCATACCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTCCAGCAGGAGTT
TTCCACCCCTTCCAGGTGAGGCTTGAAAGCCCTCCTTGAAAGAAGGGCTGGGGCCTTGGGGATGTGGAGAGAATA
CTGCTGCCCTTTTCTTCCATAGGGCTGTAGTTGGGGAGGAGGAAGCTAGAGCTGAAGGGGAGGACTCTGCAGGCAG
GTGCCAAATCCTTGGAAGCTGATGGGAGAGTCTTTACCTGGGACCTGAAATGTTCTACCTGAGTAGTCATGTTT
ATCTTTCTGGGGAGTGGGCCTTTTCGAGGTCTCAGAAGGACCCATCATGAGCCAGAAAAAGGGAGTCAGTTAG
AATTTGTATTCCAGGGAGTAGTAGGTATTTCTGTGTGCCCCAGCTGCATCATCTTTGTGTGACTCCACCCTTGG
CCTACTCAGGAAGGGCCTGGTGTTCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATGCCATGGTGAGGGG
CTTCCGAGTGGCTTATAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTGTATGGACAGAACTGGCTCAG
TGACCAGGTGAGAAAGGGTAGAGAAACAGGCCTGAGAGGGGATTGAGGGAGCAGGGTGTCTGGGGCCCTCTGCAT
GGGGGAGCCCTGTACCCATGCCGCACCCTCCATGGCAAGCTGCCTCCCATCTTCTCCCAGGTGATGAACATGTA
TGGAGACCTGGTTCATGGACACAGTCCCTGAAAAGGTAGGCCCAACCAGATAGGTCAGTACCCAGAGGAACCTTCTG
CAGTTTTAAGCAGCTTTTTAAGCTCCTTTTCATCTCTTTTCAATTTACACAGAGAGGGTCTCTGTTTCAGGGAGAGA
GGTGGTAGTGGTAGTGTATTAATTTCAAATCCGTAATCTTGGGCTCTGGATTATCAGTTGTTTTCTTTCTGCC
AGTATTTAGTGTTCGCTATGGCCAGCCCCAAGGATTGGGATGGGTTCTATTGTAACATATGTAAAACAAGA
TTT

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FIGURE 1109

MSRNSLSIPVESLGHVYMLMGSPFLGVGLTLVDSASVYPSCGLICMHESTVCIPLCFPQASLSCPFHFPCPIGL
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGS DLGMAEEAERPGEKAGQHSP LREEHVT
CVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR

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FIGURE 1110

CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGGAAGATGGCGGCTGGGTTCAAACCGTGGAACCTCT
GGAGTATTACAGGAGATTTCTGAAAGAGAAGTGCCTGCTGATGGAAGAGAAGTGGTGAATTCAGAACCAAC
TGTCAACATCGGTTCAATTAGTACCGCAGATGGTTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGG
AGTTAAAGCAGAATTTGCAGCACCATCAACAGATGCCCCGTGATAAAGGATACGTTGTTCTTAATGTGGATCTACC
ACCCCTGTGTTTCATCGAGATTCCGGTCTGGACCTCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTTCATTGCAGA
TGTCATTGAAAATTCACAGATAATTCAGAAAGAGGACTTATGCATTTCTCCAGGAAAGCTTGCTGGGTTCTATA
CTGTGATCTCATTTGCCTCGACTACGATGGAACATTTTGGATGCCTGCACATTTGCTTTGCTAGCGGCTTTAAA
AAATGTACAGTTGCCTGAAGTTACTATAAATGAAGAACTGCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTA
TTTGAATATTAGAAGTTCATCCAGTTGCAACTTCCTTTGCTGTGTTTGATGACACTTTGCTTATAGTTGACCCTAC
TGGAGAGGAGGAACATCTGGCAACAGGAACCTTAACAATAGTAATGGATGAGGAAGGCCAACTCTGTTGTCTTCA
CAAACCAGGTGGAAGTGGGCTAACTGGAGCTAACTTCAGGACTGTATGAGCCGAGCAGTTACAAGACACAAAGA
AGTTAAAAAAGTATGAGTAATTAAGAGTATGAAACCCAAATTAACAGCCACCACATTTTCAAACAGAT
TTGTAAAAATTGATTTGTTAACTGTGCACAAACGTTTTTATACTAAATAAATATCAAACACAAAAA
AAAAAAGGGCGGCCCTTTTTTTTTTTTTTAAATATATACACAAAACTTAGTTACGAAGGCTTCAT
GATATACACCAATTCCAAATAAAACAATCAATGGTCCAGGTGTAGAATGCCAGATTCTTTTATCATCTGCGA
GAAAAGAGAAGCAGGATGAGGAAGAGTGAGGGAAGGCGGGACAGGCTCTGCCCAGAAGAGCTGCCGCTCTCTG
GCACAGCAAACGCTCCAGGCTGGGCCCTGTTTCATATCTGGAGTCGGAGGGAGACTCCCATCGGCCGCTTTGGGA
CTGAAAGGCCCAAGGCTGTCACCAGCTCCCGGAAGAGAGGGAGGCAGTCTTGTTTTGTCGTGGGAAGGGGTTG
GGTGGAGAAAAAGATTACAGGCACATCACACAGGGGACCAGAAGTGGAGAGAAGACAGAGATTCTGCCGAGGC
CTTGGTCTTCCTGTCTTTCCAATCTTGCTTCCCAACTCTCCCTGCTTCTTGGGACCATCGGTAGGGGTGGGA
GCAGCAGTCAACACAGCCCACTGGGAAGGGAGGCACAAGCAGCACTCCAGCTTCCAGTGCTGCCCTCACACTCA
CCTGGACAGGTCAGGGGACACAGGATGAAAGCCATGGCCCAATCTAAGAGCAAGACAAGTGAAAAGTGAGTACTC
TCACTGTGTACCCAGCATAGGAATAGTGAACCTGCTACAACCTGGAGGCTGCGTTCCCATGACTTCCTCCTCCG
CTCTCCTTGCTGGGACTTGCTGGTTCCAGGGGTGCATATAGGGAGGGGGCGGGGGCCACAACCCCCGAGACGGT
GAGGACAGGCTTCCGACCCCCCTGTAAGCCAGATCCAGTGGGATGTGGGAGAGCTGGGCGGTACCTTCCCTCTT
GCCCCGGTGGCCCATCACACTCACACTGCACCCTGGGCAAGCAGTTCCTGAACCCCCAAGGGGCTCACAACCTT
TAAAGCTGGAGCTTAAAGCCTCCTGGCTTAGTACAAGCAGGAGAACGCTCACCTTCCACTCCTGCTGTCTCCT
TTGCTCTACCTGGCTCCCTGCCCCGAGGGAAAAATATTTACACAGAGTAGGAGACAAATTGGCTGAAAAGCTC
TGGACTGTCTTTAACTTATTTTAAACAAAAA

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FIGURE 1111

MAAGFKTVEPLEYYRRFLKENCRPDGRELGEFRTTTTVNIGSISTADGSALVKLGNTTVICGVKAEFAAPSTDAPD
KGYVVPNVLDPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVFD D TLLIVDPTGEEH L ATGTLTIV
MDEEGKLCC LHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 1112

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTGCGCCATGTCGCGGTTTTTCACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTGCTGATGTACCAAGTGCCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCCTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCTCATAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCAGCAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTGAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCAATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTGTGGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCGCTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTTCGCTGCCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGAGACATGTTTGAGCTGGATCTGCCCCTGTGCACTCCATCAT
CAGCAAAATGATCATTAAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGTGACCCGCAC
TGAGCCCCTGCCCAGCAGAACCTGGCTCTGAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCGCT
GGGCCATCCAACCTTGAAGTCTAAACACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 1113

MSRFFTTGSDSESESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKRFEEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAISVDKEGVPRFYIRILADLEDYLNELWEDKEGKKKMNNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDDEDEDESDS
EDDEDWDTGSTSSDSDSEEEEGQTALASRFLKKAPTDEDKKAEEKKREDKAKKKHDKSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENHNDQPLRVGRCILTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEEKGTTEEVCRIYLLRILHTYKFDYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRDTRTCAILCHIYHHLHSRWYQARDLMLMSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQEQEKVERRRQVPFHL
HINLELLECVYLVSAMLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVDLFPKADKVRTMLVRKIQEESLRTYLFYSSVYDSISMETLSDMFELDLPTVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQLALQLAEKLSLVENNERVFDHKQGTGGYFRDQKDGyrkNEGYMR
RGGYRQQSQATAY

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FIGURE 1114A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAACTGATT
CCAAGACAGCCTCCCGTGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGACAGAGTTAAACCAGGCCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCACGACCTGCAGCGCTTCTTAGCGATTTCGGGACCTCATGTCTTGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTTC
AGCGCAGGATGATGCTGGATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGA
TGGCTGCCCGGGAGGCCTTCTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTGACAAAGCGATTAACTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGATCAGTGAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAAGTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCACTTCTTCCGGGACATGGATGACGAGGAGTCTTGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAAGTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTACGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTGACGGCTGGAAGAGTCTTGGGAATATCAGCAGTTTGTAGCCAAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGCCAGCGAAGATTATGGCGACACTCTTGCCGCTATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCTTCAAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACACGTTCACTCCAAGGCCATCGAGGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAATCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTTCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1114B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTGAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAAGTGAAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGTCTACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAAATCGAAGCAGCTGGCTCCTCCCTTGT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAA
AAAAAAAC

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FIGURE 1115

GCGACTGTCTCCGCCGAGCCCCGGGGCCAGGTGTCCCGGGCGCGCCACGATGCGGCCGCGGCTGTGGCTCCTCC
TGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCTCCAGCAGACCCCTGCATACATAAAGGTGCAAACCA
ACAAGATGGTGATGCTGTCTCTGCGAGGCTAAAATCTCCCTCAGTAACATGCGCATCTACTGGCTGAGACAGCGCC
AGGCACCGAGCAGTGACAGTCACCACGAGTTCCTGGCCCTCTGGGATTCCGCAAAAGGGACTATCCACGGTGAAG
AGGTGGAACAGGAGAAGATAGCTGTGTTTCGGGATGCAAGCCGGTTCATTCTCAATCTCACAAGCGTGAAGCCGG
AAGACAGTGGCATCTACTTCTGCATGATCGTCGGGAGCCCCGAGCTGACCTTCGGGAAGGGAACCTCAGCTGAGTG
TGTTTGATTTCTTCCCACCACTGCCAGCCCACCAAGAAGTCCACCCTCAAGAAGAGAGTGTGCCGTTACCCA
GGCCAGAGACCCAGAAGGGCCCACTTTGTAGCCCCATCACCTTGGCCTGCTGGTGGCTGGCGTCTGGTTCTGC
TGTTTTCCCTGGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGCCCGGCTTCGTTTCATGAAACAACATA
GATTACATCCACTGGAGAAATGTTCCAGAATGGACTACTTGAATATACAGGCCTCAAGGGGAAGGTATATCAGGAA
CCTTTGTCCCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGAAGCTGCTTAACCCATGGATCC
TGAAAACATAGGCAAGAAGCACAGGTCCTGATGAGTGGATCTTTACTACTTTTACCAGATTCTCCCTCGCTCAG
AGGATCCTCCACACACCCAGCAGAGACTTCTCTGCCACCATCAACCCCCAAGTCATAGGGGGCTCAAGTCTG
CCCTGGTGAGCTGTGGCCCCATCCTTGTGAACCCCAAAGTGTCCTTGTGGAACCAATGTATCCATCTTGA
ATAAATTTGCCCAAAATCCTAAAGACCGGGAAGGGAACCATTG

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FIGURE 1116

MRPRLWLLAAQLTVLHGNSVLQQT PAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQAPSSDSHHEFLALWDS
AKGTIHGEEVEQEKI AVFRDASRFILNLTSVKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPTTAQPTKKSTL
KKRVCRLPRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQLRLHPLEKCSRMDY

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FIGURE 1117A

GTACTCTCGCGGTATTTGTCCCGACTCTCGCGGGGTTTAGCGTGGCATTGGGAGGCCCGCCTGGGGGAGGAGAC
GGCGTTCCGTTAGCGGCGTTGGGGTTTGGCTGCAGTGGCAGTGCTTTCTCTTGCTCACGGGGACCCGCTCAGG
CTGGAGGCCAGCCAGCTCTTGCCGCCACCTCGGTGCGCATGCGGGGCGCAGGACCGGCCGAGTGCCACTTCGACA
TCGAGATCAACCGGGAGCCGGTTGGTCGCATTATGTTTCAGCTCTTCTCAGACATATGTCCAAAAACATGCAAAA
ACTTCCTTTGCTTGTGCTCAGGAGAGAAAGGCCCTTGGGAAAACAACTGGGAAGAAGTTATGTTATAAAGGTTCTA
CGTTCCATCGTGTGGTTAAAACTTTATGATTAGGGTGGGGACTTCAGTGAAGGTAATGAAAAGGTGGAGAAT
CAATTTATGGTGGATATTTTAAAGATGAAACTTTATTCTCAAACATGACAGAGCGTTTCCTTTATCAATGGCAA
ATCGAGGGAACATACCAATGGTTCAGTTTTTCATTACCACAAAGCCTGCTCCACACCTGGATGGGGTGCATG
TAGTCTTTGGACTGGTTATTTCTGGTTTTGAAGTAATCGAACAAATTGAAATCTGAAGACCGATGCTGCAAGCA
GACCATATGCAGATGTGCGAGTTATTGACTGTGGAGTACTTGCCACAAAATCAATAAAGATGTTTTTGAGAAAA
AAAGGAAGAAACCAACTCATTGAGAAGGCTCGGATTCTCTTCCAATTCTCTCTCTTCTTTCAGAAATCATCTTCAG
AAAGTGAACCTGAACATGAGAGAAGCAGAAGGAGGAAACATAAGAGGAGGCCAAAAGTTAAACGTTCTAAAAAGA
GGCGAAAGGAAGCAAGCAGTTGAGAAGGCCAAGGAATAAACATGCAATGAACCCAAAAGGTCACTCTGAGAGGA
GTGATACCAATGAAAAAAGGTCAGTTGATTCCAGTGCTAAAAGGGAAAAACCTGTGGTCCGCCAGAAGAGATTCT
CTCCAGTGCCGTGAGAACCGATTTTACTGAGAAGAGATATGCCTGTGTTACTGCAGAACCTGAACCGAAGATTCT
CTGATGTTGCACCCATTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGGCA
CAATTCGTATCACACACCTCCAAGATCAAGATCCTGTTCTGAGTCAGATGATGACAGCAGTGAAACTCCTC
CTCACTGGAAAGAGGAAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAAATGGAGTAAAGGAGATA
AGTTAAGTGACCCCTGTTCAGCCGATGGGATGAAAGAAGCTTGTCTCAGAGATCCAGATCATGGTCCCTATAATG
GATATTATTAGACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAACGCAGAAAAAGAAAAAAGGTTAAGC
ATAAAAAAGAAAGGGAAAAAGCAGAAACACTGCAGAAAGACACAAACAAACAAAGAAAGAGAAGGATTCTTATACCGT
CTGACATAGAATCCTCAAAATCTTCCACTCGAAGAAATGAAATCCTCTTGTGATAGAGAAAGGAGTTCTCGTTCTT
CCTCATTGTCTATCTCATCACTCATCAAAGAGAGACTGGTCTAAATCTGATAAGGATGTCCAGAGCTCTTTAACC
ATTCCAGCAGAGACTCATACAGATCAAAATCTCACTCACAGTCTTATTCTAGAGGAAGCTCAAGATCAAGGACTG
CGTCAAAGTCTCATCATATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCCAAGTCTGGGCACCGAAAAGAGAG
CATCAAAATCACCAAGAAAAACAGCTTCTCAGTTAAGTGAAATAAACCAGTTAAAAACAGAACCTTTAAGAGCAA
CCATGGCACAAAATGAAATGTAGTAGTACAACAGTTGTAGCAGAAAATATTCTGTAAATACCACTGAGTGACA
GTCCCCCCCCCTTCAAGATGGAAGCCTGGACAGAAACCTTGAAGCCCTCTTATGAGCGAATTCAGGAAATGAAAG
CTAAACAACCCATTTGCTACCCATCCAAAGCACTTACAGTTTAGCAAATATTAAAGAGACTGGTAGCTCATCAT
CCTACCATAAAAGAGAAAAAAATTCGGAAAGTGATCAGAGCACTTATTCAAAATACAGTGATAGAAGTTCAGAAA
GCTCACCAAGGTCAAGGAGCAGATCTTCTAGGAGTAGATCTTATTCCAGATCATATACAAGATCACGTAGTCTAG
CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTACGAAATAAATACAGTGATCATTACAGT
GTAGTAGATCATCTTCATATACTTCTATTAGCAGTGATGATGGAAGGCGAGCTAAGAGGAGACTTAGATCCAGTG
GGAAAAAAATAGCGTTTCACATAAAAAGCATAGCAGCAGCTCTGAAAAGACACTTCACAGTAAATATGTCAAAG
GTAGAGACAGGTCTTCAITGTGTGAGAAAGTATAGCGAGAGCAGATCATCTTAGATTATTCTTCAGACAGTGAGC
AGTCAAGTGTTCAAGGCCACACAGTCAGCCCAGGAAAAAGAGAAGCAGGGCCAAATGGAAGAACACATAATAAAC
AAGAAAAAACAGAGGTGAAGAAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAAAAAAGAACTTTGAAAG
AGAATCTTTCTGATCACCTTAGAAATGGCAGTAAGCCCAAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
AGTCAAATTCAGAACGAGATGTCACTAAAAACAGTAAAAATGACTCCCATCCATCCTCTGACAAGGAAGAAGGTG
AGGCCACATCCGATTCTGAATCAGAGGTTAGTGAAATTCACATCAAAGTCAAACCCACAACCAAGTCGTCCACAA
ATACTTCACTGCCTGATGATAATGGTGTCTGGAAATCAAGCAAACAGCGCACATCAACTTCTGACTCTGAGGGGT
CCTGTTCCAATTTCGGAAAAACAATAGGGGAAAGCCACAAAAGCACAACATGGGTCAAAGGAAAAATCTTAAAGAG
AACACACCAAAAAAGTGAAAGAGAAATGAAAGGGAAAAAAGACAAAAAGCATAAGGCTCCAAAACGAAAGCAAG
CATTTCACTGGCAGCCTCCACTAGAATTTGGTGAAGAGGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
AATCAAAAGAGAAAAAAGTTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAAACTGAGAAATCCAGTG
AAGAGGACCTTTTCAGGTAAACATGATACAGTGACTGTTTCATCAGATCTTGATCAGTTTACTAAAGATGATAGTA
AACTCAGTATTTCTCCACAGCTTTAAATACTGAGGAAAAATGTGGCCTGTTTACAAAACATTACGACAGTTGAAG
AAAGTGTTCCCAATGGAGTGGAAGATGTGCTTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

[illegible]

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FIGURE 1118

MGAQDRPQCHFDIEINREPVGRIMFQLFSDICPKTCNFLCLCSGEKGLGKTTGKKLCYKGSTFHRVVKNFMIQG
GDFSEGNKGGESIYGGYFKDENFILKHDRAFLLSMANRGKHTNGSQFFITTKPAPHLDGHVHVFGLVISGFEVI
EQIENLKTDAASRPYADVVIDCGVLATKSIKDVFEKKRKKPTHSEGSDDSSNSSSSSESSSESELEHERSRRRK
HKRRPKVKRSKKRRKEASSSEEPNKHAMNPKGHSERSDTNEKRSVDSSAKREKPVVRPEEIPPVPENRFLLRD
MPVVTAEPEPKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDDSSETPPHWKEEMQRLRAY
RPPSGEKWSKGDKLSDPCSSRWDERSLQSRSRWSYNGYYSDLSTARHSGHHKKRRKEKKVKHKKKGKKQKHCR
HKQTKRRILIPSDIESSKSSTRMKSSCDRERSRSSSLSSHSSKRDWSKSDKDVQSSLTHSSRDSYRSKSHS
QSYSRGSSRSRTASKSSSHSRSRSKSRSSSKSGHRKRASKSPRKASQLSENKPVKTEPLRATMAQNENVVQPV
VAENIPVIPLSDSPPPSRWKPGQKPWKPSYERIQEMKAKTTHLLPIQSTYSLANIKETGSSSSYHKREKNSESDQ
STYSKYSDRSESSPRSRSRSSRSRSYSRSYTRSRSLASSHSRSPSSSRSHSRNKYSQCSRSSSYTSISSD
DGRRAKRRRLRSSGKKNVSHKKHSSSEKTLHSKYVKGRDRSSCVRKYSESRSSLDYSSDSEQSSVQATQSAQEK
EKQGGQMERHKNQEKNRGEEKSKSERECPHSKKRTLKENLSDHLRNGSKPKRKNYAGSKWDSESNSESDVTKNK
NDSHPPSSDKEEGEATSDSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSSKQRTSTSDSEGSCSNSENNRGKPQ
KHKHGSKENLKRHTKKVKEKLKGKKDKKKHAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSDLQFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPLGNARLDPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVKGQDSSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQGLRIEIKSKNKVRPG
SLFDEVKRTARLNRRPRNQESSSDEQTPSRDDDSQSRSPSRSRSKSETKSRHRTSVSYSHSRSRSRSSSTSSYRS
RSYSRSRSGWYSRGRTSRSSSYRSYKSHRTSSRSRSRSSSYDPHSRSRSYTYDSYYSRSRSRSRQSDSYHR
GRSYNRRSRSCRSYGSDSESDRSYSHHRSPSESSRY

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FIGURE 1119

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTCTGTCGCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTCTGCAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGAGGACCCTGAGTATGCCGTACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACCTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACTTGATCGAGTCAAG
ATGAGTTACTGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTATTTTGAACTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1120

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFPQQEAWVVERMGRFHRILEPGLNILIPVLDRIRY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRRER
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQQAQ
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSFAFSKLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 1121

TGTATTCAATGCACTGGATTGGATGGAAAAATAAGACATTCTTGGAAAACTCAAGTTTGGTATAGGAGATGGCAA
TTTGCAGTATTACCTGTACAATTGGAGGTGCCAGGTACAGATTCTGAAAAGGGCTCTGGTAACTTCGTTAACGC
CAATGGCAAGCTGCTTCCTGACGTGTGCAGGCGTCCACCCTGACACTTGCTGCTTAGCATCTGTTTTCTTCCT
TCAGATTCTCACTAATATCAACAGCAATGCTGCATTTCTCTCTGCTTTCTTTTTTCAGAAAAGGTGTTTTGTTCT
TTTTCTTCTTATCTTCAATCTTCTGAAGTCCAATAGCTTTAAGCCTGTCCTCAAGCGTCTGTAGGATGAAGTGCA
TATCCTCGCTCTCCAGAGCGCTCCAGCGGATGATGTATGGGTTGTTCAACGACGTCTCCACAACCAGAGGTCTCG
TCTTACGGAGAGATCCCCGCCCGGTGCTTGAGGAGCTGCAGCCATTTTGAAAATCCTTCCAAGAAGCAAAATGA
CAACAGAAAAAATTCATGTTAGCGACAACCTGCATGACTTAAGAATATCTTGACTGTACTCTCTGATTCTTATTTA
TTTATGIATTTATTTTTTTGAGACAGAATTTCACTCTTGTTGCCAGGCTGGAGTGCAGTGGCACAAATCTCAGCTC
ACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCC
GCCACCAAGCCCAGCTAATGTTTCTATTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTC
AAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCC
CGGCCTGTACTCTGATTCTGGATAAGCTAGAGCAAGCCTGATTATATAAGTCCAATTAGGTGAGCATAACGCTTGT
CTTCCTTTTAAAGATTAAAGTAATTTTATTTTTTCCCCATTTTCTTACCEGATTTTGAATGCTCTACGAAGGCTCT
TTAAAATACTCAGGACTATGGGTGAGTAGTGTAAATTTTCCCCATTTTTTTATATGACTTTGTCTTTATTCCTA
TACAAGCAATATGTGAAAGTTTTAATTATTGCAATCATAGTACAATTCCATTTGTCTATTTTATTATTAATAAT
ATTCTGTTTCTACTTGTTTATAATTAAAAA

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FIGURE 1122A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCTCCCTGGACCCGCGCAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCTT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACCTTGACACAAACTTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTCTGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCAAGCT
CATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGCAAGTTCATCAACATGTTTGCTGTCTTGG
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCCTCTGCCTACAAGAGGGCAGCACAGTTCTTGGCGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCATGTTCTTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCAGTGAGAAACATATGCTCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAATGTGAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAAGTCCAAGTGGAGCTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTGAGATCCGGGATGACCACATCCGCTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGACTCTTGGAAGCTGGTTCATCCACAGACAAGTT
CTGCAACAAGGACTGTCTTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACCAGTGAGGAAAA
ATTTGCCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCCCTGCGGCA
GGCGGTACGGAAGAAGAAGATGTCTTCATCAGCGTCTTACAGGCAATTGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTCACAAACA
GTCTTCTTCTTTCACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGGAGTTAACCATGGGCGCAGCAATCCAGTTCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTTGAAACCAAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTT
GGATAACGTTTTTCGAGCTGAGTGTAAAGATTTATGGCGTCATCATTCCGTATCCACCGTCCAATCGCTATGAAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAAATGTGTCCGCCCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAAGTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTGTTGGGGCCACCTCATTTCAAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTCTATGGAGGAAGTGTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATTTCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCCTTCTGCTCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTTGCT
CCATGCCGCACCCTTCCAAAACATCTTGCCTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAA
ACGCTTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGC
CATTGCTCGCGAGGGTGACCTCTGACCAAGGAGCGGCTGTGCTGTGGCCTGTCCATGTTTCGAGGTATCCTGAC
CCGCATTGCGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCACCAATGGCGTCATGCACGTGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCTGTGTACTGCATCCCTGTGGGAACCAACGAGTTTAC
AGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGTGGTTGTCTCCATCATTGTCTGTGGGCCAGCAGCGTGC

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FIGURE 1122B

CTTTGACCTGTTTCGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGCCACCCTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAAGTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1123

APARGPAVASGPSGPAAEPVQNTETAAMTHVTLEDALSNVDLLEELPLPDQQPCIEPPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTEVEVLEPEVTKL
MKFMYFORKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNYKLDADKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIKRTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGPIVLAIEDFHKQSFFFTHLNISEALQCCDLSQLWFRFFLELTMGRRIOQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIIPYPPSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVPYYLYGSKPLNIAYSHIYSSYRNFGPPHFKTICRLLGYQGIADVMEELLKIVKSLLQGTILQY
VKTLEIVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAEKTDVFSLEVEGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPQQAIAAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWWGCSIIVLLGQQR
FDLFDLCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSSTVEHVRCFQPPIHQ
SLATTC

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FIGURE 1124

GCTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAGCGGCACCCGCGCTCCTGCAC
CAGGGACTGTGCCGAGCCGCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCCCCTGGAGGAGCTGGATCACCTCCT
GCTGCTGGCGCTGATGACCGTGCTCTTCACTATGTGTTCTCTGCCCGTAATTTATCGCGCTTACTATGGAGCATT
TAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAGAAGACCTCCGAGCCTTGGGATTCTATCTGTGAT
TTCAATTGTGGACCCTTGGATTTTATCATTTCAGATCTCCAGTATTCGGATATTTTTTCACAAGATTTTCAT
TAGACCTCTTAGGTACAGGAGCCGGTGCAGCAATTCACATAACATGGAATCCAGTCTGTGACAGTGTTTTCACT
CTGTGGTAAGCTGAGGAATATGTCACATTTTCAGTCAAAGAACCA

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FIGURE 1125

LCNLGAMRNLYAMHRRRLQRHPRSCTRDCAEPRADGREASQPLEELDHLALLLALMTVLFTMCSLPVIYRAYYGAF
KDVKEKNRTSEEAE DLRALRFLSVISIVDPWIFIIFRSPVFRIFHKIFIRPLRYRSRCSNSTNMESSL

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FIGURE 1126

CTTATTTTCAACTCCCGAGTGGCTAGACAGGAAAAGAAAGAAATGATGTGAGGAAAGTTGGGAAGCTCTGCACA
GTGATCCCTGAGAGCCCTGGCACCACCTTTAGGAGACGTGGTAGGTCACTCTGTACATGTTCTTCCTCAGCAAGGG
GGGTTTTCCCAAAAGGGACACAAGAAGAAATCTTACTCAGTGGAGTAAATGGAAAGAAGAGGGAGCATGTCTGTC
TGGTTCCCTTCATTTTCTCCTTTCCTCAGAGTCAAGTTTACCCACAGGGAGTTCACGCTTCCATGTTGCCTCA
TCCAGCCCTTCAGGAAGCCAGAGTCTGTGCTCCAGTGTGGCATTTCAGCCAACCTAGAAATGAAGGGTGACTTAG
CACAGAGAGGTTCAACAAGTGGGGCATGCAGGCCACTGATCTCTGCAAGGGCAGCAGTGCCTGGGGTCTCTGGGA
TACAGGCAGTGCCCTCGGAAAGAAGGGCAATTGAAGACAGTTGAGAAGGTGAACAAAGTTTACATCTAACAAATT
TTAAAGTTTTATTATTTTTATTTTTATATTCTTGGGGTCTCACTATTTGCCCAGGCTGGAGTGCAGCAGCTATT
TGCAGGCTGAATCCCACTACTGATCAGTACTGGAGTTTTATTTTATTTAATTAACCTATTTATTTTGAACAGAG
TCTTGCTCTATTGCTCAGGCTGGAGTGCAGTGTGCGATCTCGGCTCACTGCAGTCTCGACCTCCAGGCTCAAT
CGATCCTGCCACCTCAGCCTCTGGAGTAGCTGGGACTACCTGTAGGTGCGTGCCACCACGCCAGGTAATCTTTT
ATTTTTGTAGATACCAGTTATCCTATGTTGCCCAGGCTGGTCTCCAACCTCCTGGGCTCAAGCAATCCTCCCACC
TCAGCCTCCCTAAGTGCTGAGATTACAGGTGTGAGTCACTGTGCCCAGCCAACCTGGACTATTCTAAATTTTAAC
AGTGCCTAAGAGAATCATGCTTAATTAATAAAGTCTGAGCTGGACGTGGTGGCTTACGCCTGTAATCCCAGCACTTTGG
GAGGCCGAGATGGGCGGATCCCTTGATTCCAGGAGTTCGAGTCCAACCTGGGCAGCACGAAGAAACCCATCTCTC
TACCAAAAATACAAAATTAGCCAGGCATTGTGGTGATACCTGTAGTCCCAGCTGCTTGGGAGGATGAGGCAGG
AGGATTGCTGGAGCCTGGGAGGTGGAGGTGCAAAAAATAATGACTTTTAGTGTTACTGCAGATGCAACGCATG
TTCACTGTAGACCAATTTAAACTATAGATAAACCAAAACAACAACTTTTCTTTTTTTAAGAGACGGAGTCT
CGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCGCTGCAACCTCAGCCTCCCAGGTTCTAGCAA
CTCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGCGCACACCACCACCCATCTAATTTTTTGTATTTTAG
TAGAGACGGGGTTTACCTTGTTATCCACTGTGGTCTCAAACCTCCTGAGCTCAGACAATCCGCCCGCCTCGCCTC
CCAAAGCGCTGGGATTACAGGGGTGAGCCACCACCCCGCCAAGAACTTTAAATACTACCTAGAGACAATCCC
TTTTAAACTTTAGTGATGTCTTTTTATACCAATTTCTAGGCTTCTAGGCTCATTTGCAAAAATGAGATACCAC
TGTAATACTTAATCTGTAAATTATCTTTTCAGGAGTCTCTCTGAGTCTCTCGGCTCAGGGAGCTGTCTATATA
CATAAATAAGTAAATTTTTTTTTTACAATGGTTGTTGAAGATACTAATAAATATTAGGGCTGGGCACAGTGGTTT
ATAGCTGTAATCCCACCCTTCGGGAGGTCAAGGTGGGAGGATTGCTTTAGCCCAGGAGTTTGAGACCAGCCTGG
GGAACATAATGAGACCCATCTGTAAAAAAGAAATTAATTCACCTTTAGTATTATCTTATTAATAATCCATTG
TGCATTTACACAATCATTTACCTTATCAGTCCCTTCAGAAGAACATTTAAGTTGTTATCACTTACATCCTTGCAG
CTAAATCTTTGAGTACATCCTAATACCTGTCTGTTTTTAATGACCTATCTAAGGAATCCTTTGAAACCTATACAC
TTAACCACCTGTGTTAGCTAAGAGCCTCCAAAAAGGCTGGGTGTGGCGGCTCATGCCTGTAATCCCAGCACTTTGG
GAGTCCGAGGCGAGTGAATCACTTGAGGTCAGGAGTTCGAGACCAGCCGGGCCAACATGGTGAAACCCCGTCTCT
ACAAAAAATGCAAAAATTAGTTGGGCATGGTGCTCACTCCTGTAGTCTGGCTACTCAGGAGGATAAGTGGAAG
GATGGCTTAAGCTCAGGAGGTAGAGATTGCAATGAGCCGAGATTGTGCCACTGCACTACAACCTGGGCAACAGAG
CCAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1127

CTTGTCCTCCCTGGTTTGTGAAGTGCGGAAAACCAGAGGCGCAGTCATGTCGGGATTTCGACGATCCTGGCATT
CTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGGCGAGGCCGCAAATCGCAGCTGCAGAGGCGCTT
CAAGGAGTTTCCTGCGGCAGTACCGAGTGGGCACCGACCGCAGGGCTTCACCTTCAAATACAGGGATGAAC TAA
GCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC
CGACTACTTGTACAAGCAGCCAGCCAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGT
GACCCGCGCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGACATCCAGGTCATGCTCAAGTCGGACGCCAGCCCTTC
CAGCATTCTAGCCTGAAGTCGGACATGATGTACACCTGGTGAAGATCCCTGGCATCATCATCGCGCCTCTGC
GGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCGCGAGCTGCCGCAACACCCTCACCAACATTGCCATGCG
CCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAACACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGGA
CCCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGACTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGC
AGTCCCCACGGGGAGATGCCAGACACATGCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTGCTCCCTGG
GAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAAGTTTGGCCTGACCCAGCAGGGGCCGTGACAGGGT
GGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGGCATCCAGGTGGACACAGATGGCTCTGGCCGCGAGCTT
TGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGAGTTCCGTGCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCTAT
CTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGACATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGG
CTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCTGGGAC
AGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTCTCCCATTTGGGTATACAGTCTGGGAAAGGCAGCAG
CGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTCGTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGT
CCTGGCCGATGGTGGGGTCTGTCTGTATTGACGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGA
AGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGGGATCACCACCACCCTGAAC TCCCGCTGCTCCGTCTCT
GGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGACGAAGGGGGAGGACAACATTGACTTCATGCCCCACCAT
CTTGTCGCGCTTCGACATGATCTTCATCGTCAAGGATGAGCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCA
TGTCATCACTCTGCACGTGAGCGCACTGACACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAA
GAAGTTTATTGCCTACTGCCGAGTGAAATGTGGCCCCCGGCTGTGACGAGAGGCTGCAGAGAACTGAAGAACCG
CTACATCATCATGCGGAGCGGGCCCGTCAGCACGAGAGGGACAGTGACCGCGCTCCAGCATCCCCATCACTGT
GCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGC
AGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCACGTTGGATGCTGCCTTGTCCGGTACCTGTGAGGGGT
GGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAGCCGATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT
TGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTTCACCAAGCAGAAATACCCGGAGCACGCCATCCACAA
GGTGTCTGACGCTCATGCTGCGGCGCGGCGAGATCCAGCATCGCATGCAGCGCAAGGTTCTCTACCGCTCAAGT
AGTCGCGCCGCTCACTGGACTCATGGACTCGCCACGCCTCGCCCTCCTGCCGCTGCCTGCCATTGACAATGT
TGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAAGTTCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGC
TGTAAGTGTCTGCTGCTCTGGGCGCCCGCTCTAGCGCGGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAA
TAAAGCCACGGTGTGTTCAAGTAAAAA

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FIGURE 1128

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCLDPYFIMPDKCKCVDFQ
TLKLQELPDVPHGEMPRHMLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFGGTDMKKAIACLLFGGSRKRLPDGLTRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMPITLSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSR
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHKKVLQMLLRGEIQHRMQRKVLYRLK

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FIGURE 1129

CTGGAAGGAGTCAATGGCGGATGGTTCAGGTGGCGGAAGTCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTTCATCGAGGCTGAAGTTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCGCGTGTGTTTCGAAGCATTCCCCAGAGGGCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGGTGGACAAGAGTGGCGGTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAAGTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAAGTCTTGGCCCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGACAGATCTTCTGGAGATGGGGTTACCCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCGT
GACCAGCACGACACCTTCTCCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGGCTCTACCGCCTTGCCAGAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTTGACATGGGGCACTCTAGGACAGGTTCATCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTTCCACCTGTCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCTT
GTGTGGTGTGTCTACTGTGAGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 1130

MADGQVAELLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSAFSTSISKQETELSPEMISSGSWRDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNFDALFQPQQHPARDQHDTFFLRDPAEALQLPMDYVQVRKRTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLRFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 1131

GAATTCGGGCGTGGGCGCGGGGGCGCGCGTGCAGGGCTGAAGCGGCGGCGGCGGTGGGGACTGC
ACGTAGCCCGCGCTCGGCATGGCTCTCCTGGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAATGG
TCTGTATTCTCTAGTGATGATGTGATCGAATTAACCTCCATCAAATTTCAACCGAGAAGTTATTCAGAGTGATAG
TTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAAACACCAGAATGGAAGAAAGCAGC
AACTGCATTAAAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGG
TGTTCAGGGATTTTCTACCATTAAGATTTTGGATCCAACAAAAACAGACCAGAAGATTACCAAGGTGGCAGAAC
TGGTGAAGCCATTGTAGATGCTGCGCTGAGTGCTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGGACGGAGCGG
AGGATACAGTTCTGGAAAAACAAGGCAGAAGTGATAGTTCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACAG
CTTTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCTCCTTGGTGTGGACACTGCAA
AAACCTAGAGCCAGAGTGGGCTGCCGCAGCTTCAGAAGTAAAAGAGCAGACGAAAGGAAAAGTGAACCTGGCAGC
TGTGGATGCTACAGTCAATCAGGTTCTGGCTCCCGATACGGGATTAGAGGATTTCTTACAATCAAGATATTTCA
GAAAGGCGAGTCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGATTGT
TTCTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCA
CCAGCTCTGTGTTGTGGCTGTGCTGCCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATCTTATCTGGAAGT
TCTTCTGAAGTTGGCAGACAAATACAAAAAGAAAATGTGGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTCTGA
ACTTGAGACCGCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATGAAATT
TGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAGCTCTCTTTGGGCGTGGCTC
CACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTTGAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCT
TCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTTGATGACTTAGGGAAAGATGAGTTGTAGAGCCACA
ACAGAGGCTTCAGACCATTTCTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACTTT
CTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACACTCAGATGACTCTACCACTGGCC
TTTTAACCAAGAAGTAGTACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACCTTTGCATCTCAAGAAAACA
TTGAAAAATTCTATGAATTGTGTAGCCGGTGAATTGAGTCGTATTCTGTACATAATATTTGAAGAAAACCTG
GCTGTGCAAAACATTTTCTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTTCTTATGTATGGGTTTTTTTT
AATGTGATCCCTTCATTTGAATATTAATGGCTTTTCCATTAAAGAATAAATTGGAAAAAGAAAAAAAAAAAAA
GGAATTC

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FIGURE 1132

MALLVLGLVSCFFLAVNGLYSSSDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDV
VKVGAVDADKHHSLSGGQYGVQGFFTIKIFGSNKNRPEDYQGGRTGEAIVDAALSALRQLVKDRLGGRSGGYSSGK
QGRSDSSSKKDVIELTDDSFKNVLDSEDVWMVEFYAPWCGHCCKNLEPEWAAAASEVKEQTKGKVLA AVDATVN
QVLASRYGIRGFFTIKIFQGESFVDYDGGRTSRDIVSRALDLFSDNAPPELLEIINEDI AKRTCEEHQLCVVA
VLPHILDTGAAGRNSYLEVLLKLADKYKKMMWGLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGS
FSEQGINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELPVEDDIDLSDVELDDLKDEL

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FIGURE 1133

TAGATGGCAACCTCCCTATCTGCCCCGAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGAACCACTC
ATTCACTTCTAGACGACAAAAATGCAAAAAAGGAGGCCAAAGACTTTTGGAAATGGATATGAAAGCATACCTGAGAT
CTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGAATACTTCTTGCCAACCAAACCTGGTCAAAATGTCTTTGGAAGTTTCCTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAAGTCATATATACTC
TTATGGAAAAGGACTCTTATCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGCTTGTGACAGGCCAAGAAGAACAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTCTATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCATTAACTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTGCGGTGATTTTATTTTATTGTTTTTACTTTGGAAGAGATGAACTGTGTA
TTTAACTTAAGCTATTGCTCTTAAACAGGGATCAGAATATATTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAACTGCATTT
ATTCCTCAGATTTTAAAAATAAATAAATAATTCATTAAAAA

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FIGURE 1134

MPGMFFSANPKELKGTTTHSLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVLSAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSLK

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FIGURE 1135

GAATTCCGGCAGGCACAACTCATCCATCCCCAGTTGATTGGAAGAAACAACGATGACTCCTGGGAAGACCTCAT
TGGTGTCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAGGAATCACAATCCCACGAAATCCAGGAT
GCCCCAAATCTGAGGACAAGAAGCTTCCCCCGGACTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATA
CCAATCCCAAAAGGTCCTCAGATTACTACAACCGATCCACCTCACCTTGGAACTCTCCACCGCAATGAGGACCCCTG
AGAGATATCCCTCTGTGATCTGGGAGGCAGAGTGCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACT
ACCACATGAAGTCTGTCCCATCCAGCAAGAGATCCTGGTCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCT
TCCGGCTGGAGAAGATACTGGTGTCCGTGGGCTGCACCTGTGTACCCCCGATTGTCCACCATGTGGCCTAAGAGC
TCTGGGGAGCCACACTCCCCAAAGCAGTTAGACTATGGAGAGCCGACCCAGCCCCCTCAGGAACCCCTCATCCTTC
AAAGACAGCCTCATTTCGGACTAAACTCATTAGAGTTCTTAAGGCAGTTTGTCCAATTAAAGCTTCAGAGGTAAC
ACTTGGCCAAGATATGAGATCTGAATTACCTTTCCCTCTTTCCAAGAAGGAAGGTTTGACTGACTACCAATTTC
TTCTTGTTTACTTTTTTAAAGGGCTTTAAGTTATTTATGTTTAAATATGCCCTGAGATAACTTTGGGGTATAAGA
TTCCATTTTAATGAATTACCTACTTTTATTTTGTGTTTGTCTTTTAAAGAAGATAAGATTCTGGGCTTGGGAATTTT
ATTATTTAAAGGTAAACCTGTATTTATTTGAGCTATTTAAGGATCTATTTATGTTTAAAGTATTTAGAAAAAGG
TGAAAAAGCACTATTATCAGTTCTGCCTAGGTAAATGTAAGATAGAATTAAATGGCAGTGCAAAATTTCTGAGTC
TTTACAACATACGGATATAGTATTTCTCCTCTTTGTTTTTAAAGTTATAACATGGCTGAAAAGAAAGATTAAA
CCTACTTTTCATATGTATTAATTTAAATTTTGCAATTTGTTGAGGTTTTACAAGAGATACAGCAAGTCTAACTCTC
TGTTCCATTAAACCTTTATAATAAAATCCTTCTGTAATAATAAAGTTTCAAAGAAAATGTTTATTTGTTCTCAT
TAAATGTATTTAGCAAACCTCAGCTCTTCCCTATGGGAAGAGTTATGCAAATCTCTATAAGCAAAACAAAGC
ATGTCTTTGAGTAACAATGACCTGGAAATACCCAAAATTCAGTTCTCGATTTACATGCCTTCAAGACTGAAC
ACCGACTAAGTTTTTCACTATTAGCCAATGCTGTAGACAGAAGCATTGTGATAGGAATAGAGCAAATAAGATA
ATGGCCCTGAGGAATGGCATGTCATTATTAAGATCATATGGGGAAAATGAAACCCCTCCCCAAAATACAAGAAGT
TCTGGGAGGAGACATTGTCTTCAGACTACAATGTCCAGTTTCTCCCTAGACTCAGGCTTCCTTTGGAGATTAAAG
GCCCCCTCAGAGATCAACAGACCAACATTTTCTCTCTCAAGCAACACTCCTAGGGCCTGGCTTCTGTCTGATC
AAGGCACCACACAACCCAGAAAGGAGCTGATGGGGCAGAATGAACTTTAAGTATGAGAAAAGTTCAGCCCAAGTA
AAATAAAACTCAATCACATTCAATTCAGAGTAGTTTCAAGTTTCACATCGTAACCATTTTCGCCCCGAATTC

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FIGURE 1136

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNRSTSPWN
LHRNEDPERYP S VIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTP I
VHHVA

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FIGURE 1137A

[illegible]

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FIGURE 1137B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGCGGCTGAATACAAGGCCAAGAAAGCAAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCCGGCGAGGTTCCAGGTGGGACACAAAAACCGCAGAAAGGATCGTCGAC
CCTGAGGCCCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGCTCTCAGAAGTC
CTGGATTTTGGAAACTCCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1138

MGRSGKLPSGVSAKLKRWKKGHSSDSNPAICRHRQAARSRRFFSRPSGRSDLTVDVAVKLHNELQSGSLRLGKSEAP
ETPMEEEAELVLTEKSSGTFLSGLSDCTNVTFSKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETETEFYFAA
LMTTMEAVESPESLAAVAYLLNLVLRVPSPLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPTVLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARFGLSTLSAELNAQIITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHFVPMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKSKA
MDLAQAGSTVESKIYDTLQWQMWTLPGFCTRPDVAISFKGLARTLGMAISERPDLRVTVCQALRTLITKGCQA
EADRAEVSRLFKNFLPILFNLYGQPVAAAGDTPAPRRAVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEVCA SPQGP GALFVQSHLEDLKKTLLDSL
RSTSSPAKRPRCLKLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRFGSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTRDVVKSALGFIKVAVTVM DV
AHLAKHVQLVME AIGKLSDDMRHFRMKLRLNLF TKFIRKFGFELVKRLLP EYHRVLVNI RKA EARA KRHRALSQ
AAVEEEEEEEEEEP AQGKGSIEEILADSEDEEDNEEEERSRGKEQRKLARQSR A WLKEGGGDEPLNFLDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLLIREEADGNKMEEEEGAKGEDEEMADPMEDVIIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPD PYAYIPLNRSKLNRRKKMKLQGGQFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 1139

GATAAACAACTTGATGCAGATGTTTCCCCCAAGCCCACTATTTTCTTCCTTCGATTGCTGAAACAAAACCTCCAG
AAGGCTGGAACATACCTTTGTCTTCTTGAGAAATTTTCCCAGATATTATTAAGATACATTGGCAAGAAAAGAAG
AGCAACACGATTCTGGGATCCCAAAGACAATTGGTCAAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAA
CACCTCTGCATATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCT
GCTTGGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCT
CATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTCAAGT
CTCATGTGTGTACTATTCTATCTATTGTATAATGGTTTTCAAACCAGTGGGCACACAGAGAACCTCACTCTGTAA
TAACAATGAGGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCA
AATAGCGCCTGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTTCTTTAATCAGATAA
CTGCCTGGAAGCCTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTCC
GTAATAAGCAAAATAAAATTTAAAAAATGAAAAGTT

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FIGURE 1140

CAAGGCTGAACGTCCAGGTCACCTCCACGCCCGTGATCGTGATGCGCGGGGCTGCTGGCCTGCAGCGGGAGATCC
AGGAGGGTGCCCTACTCCGGGAGCTGCTACCATCGAGATGGCTTACGGCTGAGTATACAGTTTGAGGTGAGGCGGG
TGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGTGAAAGACCTCCTCCACAGCCAACGCGACTCAG
CCGCCAGGACCCGCTGTTCTTGCCAGCCTGCCCGGCTCCACCCACTCTACCGCTGCTGAGCTACCGGACCCA
GCCTGGTGGAAGTGTCTAGAGCCAGACCCTGGTTTGAGGAGCCCCCAAGGCTGTGGAAGTGGAGGGGTTGGCGG
CCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCCGCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGA
CTGCTGTGGACAAGGAAAAAACAAGGAGGTGGTGGTGAAAGTTTATTAGAAGGAGAAGGTCTTGAGGATTGTT
GGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGCAATTCTATCCAGGGTGGAGCACGCCAATATCA
TCAAGGTATTGGATATATTTGAAAACCAAGGGTTCTTCCAGCTTGTGATGGAGAAGCACGGCTCCGGCCTAGACC
TCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCTGGCGAGCTACATCTTCGACAACACTAGTGTGAG
CAGTGGGATACCTGCGCTTGAAGGACATCATCCACCGTGACTTCAAGGATGAGAATCGTGATCGCCGAGGACT
TCACAATCAAGCTGATAGACTTTGGCTCGGCCGCTACTTGGAAAGGGGAAAATTATTTTATACTTTTTGTGGGA
CCATCGAGTACTGTGCACCGGAAGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGG
GAGTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATAC
ACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCA
CCACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGG
TGTTTCGAGTAAACAAGCCAGAAAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTG
ATGTGGCCCAGGCTCAGGAGCTTTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATC
CCGGGGATCCCCGCTGCTGACAGCTAAACACCAATTTCTTCTGCTTTTCTCCACTTGGTTTGGAAAATCACA
CAGTTTTTCAGGCTCCATCTGTTTGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAAACTCATGTG
CAGGTTTGATAAACACCAGAACAGAAGACAGTGATGCTGTATTATTTTAGATTATTACATAGATTGGAATTCA
CTTTTTTCATGACCTAGAAAAAACATTCCAGTGTTCAACTGTTTTATATTATTAAGGGCTTTTAATTTGTGAA
CTTCTGAAGGCATGAGTGTCTTTCTTTCTACTTTTGTATATGTGCATGTTTGTTCCTCTGACTTGGTATATG
CTCATCTGAGTGACGGATATGTGAAATTTGTAGAACTGGTTAGTCAAATGGCCAGACTATTTCAATTAATTTATT
CCTCAAATGCTTTTCAAATTAAGCACCTTTGTTAGTAAACAGTTAAAAA

A

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FIGURE 1141

GAATTCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCTTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTCACCAATAATAGTCTCGTGGAACTGGGTGATCTGG
ACCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGGTTTGCCAAGTACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAAATAAGTT
TTGAAATCTAAATGTCAATTTCTACAAATTATAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 1142

MVKLTAEIEQAAQYTNVDRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNNSLVELGDLDPASLKSILTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFQKV
KLKERQEAEMFKGKRGALAKDIARRSKTFNPGAGLPTDKKRGGPSPGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDIVTNGS

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FIGURE 1143A

CGGCCCGCGGTAGGCGGTGGCGACTCTGCCCGCTCCCGTTTCGGCGCGGTGACCGAGCGCCCGGGAGGCTCGAG
GACCGCATCGTGTGCCGTTTGCGCCAAGCCCGGTCCTGCGCCGCCATGGCCCCAGTGCAGCTGGAGAACCACCAGC
TGGTCCCGCCCGGAGGCGGCGGGGCGAGCGGCGGACCCCGTCAGCCCCAGCCCTCCTCCCCGGGAGCCG
CCGTGGCGGCGGCCGCTGCAGCTGCGGCTAGCCCGGGCTACCGGCTGAGCACCCCTCATTGAATTTCTGCTGCACC
GGGCTACTCGGAGCTTATGGTGTGACGGACCTACTGCCAAGGAAATCTGATGTGGAAGGAAAATAGAAATAG
TGCAGTTTGTAGCCGGACACGCCAACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCA
AAGTGGAAAAATGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCATCCTGTTTGTGGACACTGCTGATCGCC
TGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCTGCTTAGTTTTGCCATCCCATATGCCATTGATGTAC
TAATACTTGGATCTTACCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCTCCAGACCCAATTACCAAAA
TTGAAAAACAAGCCACACTCCATCAGCTGAATCAGATTCTTAGACATCGGCTTGTAACCACAGATCTTCCTCCTC
AGTTAGCAAACTTTACAGTTGCAATGGCCGGGTGAAGTTTCGTGTTGAAGGAGAATTTGAAGCCACCTTGACTG
TGATGGGAGATGACCCTGATGTTCCATGGCGTCTTCTCAAGCTAGAAATCTAGTTGAGGATAAGGAAACAGGAG
ATGGGCGAGCTTTGGTTTATAGCATGCAATCAGCTTCATCCATCAACIGGTGCAGTCTAGGCTCTTTGCTGATG
AGAAACCTCTTCAGGATATGTACAACAGCTACATTCTTTCTGTTTATCACTTCAGTTAGAAGTGTTACATTCCC
AAACTCTAATGTTAATCCGAGAACGGTGGGGAGACCTTGTGCAGGTGGAAGGTATCATGCTGGAAAGTGCCCTCT
CCCTTTTCAGTTTGAATCAACAGGTTCTTGGGAGAAAACTGGAACAGCATCTGTTTACAAAGTTACAATTAATA
TTGATGAGAAATGATGTCTCCAAGCCTTTACAGATTTTTACGATCCTCCTTGGCAGCTTCTGATTCCAATTAG
TAGAAAGAGCCATGAAGATCGACCATTATCAATAGAAAACTCCTGATTGACAGTGTCCATGCAAGAGCTCATC
AGAAGCTCCAAGAACTGAAGGCCATTCTTAGAGGCTTCAATGCCAATGAAACTCTTCCATAGAGACTGCACTCC
CAGCTCTTGTGTTCCCATCTTGGAGCCCTGTGGTAATCAGAGTGTCTGCACATTTTTGTAGATTTACATTCTG
GAATGTTTCAATTGATGCTTTATGGACTTGACCAGGCCACTCTGGATGACATGGAGAAGTCTGTGAATGATGATA
TGAAACGAATCATACCCTGGATTGAGCAACTTAAGTTTTGGCTTGGACAACAGCGTTGCAAGCAGTCTATAAAAC
ATCTGCCTACGATAAGCAGTGAAACATTGCAGCTTTCCAATTACTCAACTCATCCTATTGGAACCTTTCTAAGA
ATAAACTGTTTCAATAAATTACCCGCTTCCACAATACTACATTGTTGTGGAGATGTTGGAGTTCCCAATAAAC
CCACACAAGTGTGTAACAAGTACTACTTTATGTCTGTGAATGTGCAGATCGTGAAGACAGCCCTGCAATGGCAT
TGCTGCTGCAGCAGTTCAAGGAAAACATTGAGACTTGGTTTTTCGTACAAAACCGGGAAACAGACCAGAACCA
ATGCCAAGCGCAAGTTGTCTGATGATCCATGTCCAGTAGAATCCAAGAAAACAAAACGAGCAGGAGAAATGTGTG
CCTTCAATAAAGTTTTAGCCACTTCGTGCTATGTGTGATACAAATATGCCATTTGTAGGACTTCGGTTGGAGT
TGTTCAATCTGGAGATTCCACATCAAGGAGTGAAGTGAAGGTGATGGCTTCAGCCATGCAATTCGCTTATTAA
AAATTCCTCCCTGTAAGGGTATACTGAGGAAACCCAAAAGGCTCTGGACCGCTCTCTTCTTGTGCACTTTCC
GATTACAAGGTAGAAATAACCGCACTTGGGTAGCAGAGTTAGTGTTCGAAATTGTCCACTTAATGGCACTTCTA
CTAGGGAGCAAGGACCATCCCGGCACGTTTACCTGACATATGAAATCTGTTGTCTGAGCCTGTTGGTGGTAGAA
AGGTGGTTGAAATGTTTCTTAATGACTGGAATAGCATTGCACGATTATATGAGTGTGTGTTGGAATTTGCACGTT
CTCTACCAGACATACCTGCTCATCTAAATATTTCTCAGAAGTTCGTGTTTATAATTACCGAAAACCTTATCTTGT
GTTATGGAACCAACCAAGGGAAGCTCAATTAGTATCCAATGGAATTCGATCCATCAAAAATTCACATTTCTTTGG
GAACTGTTGGCCCAAACTCAGGTTGCAGTAACGTGCACAATACCATTCTCCATCAGCTTCAAGAAATGTTCAACA
AAACACCAAAATGTGGTTTCAAGTTATTACAGGTACTGTTTGATACTCAGGCTCCATTAAATGCCATCAACAACTCC
CCACTGTGCCGATGTTGGGCTTGACCCAGAGAACCAATACTGCCTACCAGTGCTTCTCCATTCTGCCACAGTCGT
CCACCCACATCAGACTGGCCTTCAGGAACATGTATTGCATTGATATATACTGCCGGAGTCGAGGTGTTGTGGCAA
TACGGGATGGTGCCTATAGTCTTTTGATAACAGCAAACTAGTTGAAGGTTTCTATCCTGCACCAAGGACTAAAGA
CGTTCTGAATATGTTTGTGACAGCAATCAGGATGCTCGAAGAAGGTCTGTAAATGAGGACGATAATCCCCCTT
CTCTATAGGAGGAGATATGATGGATTCTTTAATATCGCAGCTCCAGCCACCACCCAGCAACAGCCATTTCCAA
AGCAGCCAGGAACATCAGGTGCTTATCCTCTTACTTACCCCCCTACATCTTATCATAGCACAGTCAATCAGTCTC
CCTCAATGATGCACACACAGTCTCCAGGAAATCTGCATGCTGCCAGCTCCCCAGTGGGGCTTTGAGAGCCCCAT
CACCAGCGTCATTTGTTCCAACCTCCTCCCCATCCTCGCATGGAATCTCAATAGGACAGGGGCCAGTTTGTCTA
GTCCACATGGAACCTTGGACCTAGTTCCCATACACTATGGTGTCAACAGTGGACGAGCAGGGAAGTGGCCAG
GATCTCTCAAGTGTCTGGCCCCCTCACCAGCAGCAGCATGCCTGGAATGTCAACAGCCAACCCCTCACTACATT
CTCCGGTTCCAGATGCTTCTCATTCCCTCGAGCTGGAACAAGTTCTCAAACAATGCCAACAAACATGCCTCCAC

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FIGURE 1143B

CTCGTAAACTACCTCAGCGCTCTTGGGCGGCATCCATACCTACCATCCTCACTCACAGTGCCTTGAACATTTTAC
TGCTGCCCTCTCCAACCTCAGGCCTTGTGCCCGGCCTGGCAGGTAGTTACCTTTGTTCTCCACTTGAGAGATTCC
TTGGATCAGTCATCATGAGACGACATCTTCAAAGAATTATTCAACAAGAAACGCTGCAGCTGATAAATTCTAATG
AACCCGGAGTGATCATGTTTAAAGACTGATGCACTGAAATGCAGAGTAGCTCTTAGTCCCAAAACCAACCAACGC
TTCAGCTAAAATTGACACCTGAAAATGCAGGACAGTGGAAACCTGATGAACTTCAAGTTTTGGAGAAATTCCTTG
AAACAAGAGTTGCAGGACCACCATTTAAAGCTAATACGTTAATAGCCTTCACCAAGCTATTAGGAGCTCCTACAC
ACATCCTCAGGGATTGTGTGCACATTATGAAGCTGGAGCTGTTCCTGACCAAGCAACACAGCTAAAATGGAATG
TTCAGTTTTGCCTGACGATCCCTCCCAGCGCGCCGCGGATTGCACCTCCTGGGACGCCTGTGTGGTGCTGAAAT
CCAAAATGCTATTTTTTCTTCAACTAACTCAGAAAACATCGGTCCCTCCCCAAGAACCTGTTAGTATTATAGTTC
CAATCATTTATGACATGGCTTCAGGTACAACCCAGCAGGCAGACATTCCCAGACAGCAGAATCTTCTGTTGCTG
CTCCCATGATGGTCAGCAACATTCTGAAGAGGTTTGAGAGATGAATCCACCAGACAAGGTGAATGCACAATAT
TTGCAGCTGTTTCGTGATTTAATGGCTAATCTTACACTGCCCCCTGTTGGGCGTCCATAGACACTATTGTTTTTAA
ACCAGGAAGGCTGACAGATGAGACAACAAAAAAATCTGAATTCAGCCTTCAGTTTAAAAAAGGAAAGGACTTT
TTTTTTAACTTTAAGAGCTAAATATTCTAACTGGCAAAAATTTTCAGGGTGCACCTCTTTCATCAAAATGATC
ATCCATCTTTTGTATAATGAACCTGTATAGTGTGTTAAATGGGACACATTTCAAAGGAAATAAATCAGTGTCCG
TTTGCCAGTAATAAATTTAATATTCTGTTTTATACTATAAGTTATGAAAATGCCAACTTGTTTTATTAAATGT
TTTCTTATGTTTTGGGTGTAATAGTCCTTTTTTGGTTTTTGTGTTTTTAAAGGCAGGTCTGTCATTTTTGAA
TACTGTAAACTGTGATAAACTTTATATTGAAGCTGATTTTAAATATGACCGCTTTGAATCCTTACATGAAATGT
TCTGGGAGTTGTTATAAACACACCCCAAGGAAGCAATTTTAAATAAACTAGGTCAAAAACAAAACAAAACAGTG
ACACTCACTTGTGTATATAAACTCTAGAGACATCTTAGGCCCTCCCTTCATCTTTAACCTGGTGGATGGAGCC
AGTTATTAATTTATAATAATACATGTCTGAAATTTGACCAAAAACATCTTCTTTATGTCAAGGTTAATATATTTT
CTTCAGACATTCCTAACTGACTAGTGGTTAATTTAGCACCTTGGTGTCTTTCAATATATAGGATTTGGGTG
AAAAATAAGGAACCTTAGTCTTTGAGAAGGGACAGTATGTGGTTCGTATGATCAAGGATCCCAATAATGCAATC
ATTCTCATCTGTTGAGGATGTGGAACTTTCTGTGAGGAAATTTAGTTTACAGAATACTTCTGCATACAACAT
TAATTAGGAAACAAAGAACTTTAATGCTGTACCTCTGCATGAAGTTTCTGTGAGCTTTCTTTATCTTGCTTAACT
TATCCTCCTTTCCCTCCCAACAAATGGGATTGTTCTAAACAATTTCAATTTAATTCATTGTCAACAAAACGA
TAGAATGTTTTGCTTGGAAGAAACCTGGTCCATTCCCTCATTGTGAAGAATCCCGAATCCTGGGCCTGTCCAGG
GTCAAATGGAGTTTTTGGTATTAATACATCTCTGCAGGGTTTCTTTTTGGAGCACTGTGCTGTCTTTCCTAGTCA
GTCAGGACTTTTTTAAAGCTTCAAAGAACATGGTCTGATGCAAAGGTCTTCTACCGACTTCATGGTATTTAGGAA
AAATTTTTAAGTGATAATACCATGCCGAGTTACCTGGTCACTGTAATACTGGTCTCCATTAAATGTAGATGCT
TTGTCTAATTCACCTTCAAGATGATTTAATTGAGCTTCTATAACTATCAACTATCAAATTCAGTTTCAAGTATC
TCACTGTACCTATATCATATCTGTTCTCACTTTGTTTGATTCTCCACTCATTTTCAATCAGAGTTGAAGCCTTC
TTTGCCCTTTCTTCTTTGCTTATTTCTGCCTTCATCTCCCACTTCTCACCCAACCTCTGCCACTGTTTCAGGAGCAG
TTGACTAACTTTTATCCTTCCTTTAACTTAATCTTTTTATCCTTCTGTTTTTAGTCTTACAGTGGTAATCACA
TCAGTTTGGCAATCTAAGATGTCTTTATCAAGGGTCAGCCCTTTTCTATTTGGAGCTGAATCTTTCTTTTCATGT
AGAAATCTACATGTATATACAAGAAATGATTTTTATCTGCAGGATAATATTGTTTCAAATAATTTTATTAGAG
TTAACTTTTTAGGATTTTTCCCTTTTAAATGTGGTTTTGAAATGTTAATTGCATTTTACACATGATGCATTCACT
GGACACTCTTTTTTCTAATTATAACTCATCTCTGAATGCATTGTGCCAATCAAGAGTAAGATAGGATTCACTGC
GCAAAATTTGCTTTTGATGCTTATTAAGAGTAAACCCATGAATTTGAATTTTATATTATGCTTGGTACTTGGAA
TTGATATATACCTTATTAAGCTTGAAAACATTTAGCATTGTAATAGTAAGTTTCATCACAAATCATGCTTTTTG
CCTCTTTTGTACCCAGGTTTCGATCAAGGGGACTGGATGCCCAAGTGATTTTCTCTAATAATCGGGTTGGGACTT
AACTTTAAGGTGTTTTCAATGTGATTTTAGTATTTACAGTAATAAATAAAATTTATACAAAGTTTCAGAGAACTA
CCAACCTCTAGTTAATTTTGTGAAGATGTTTTCAATTAATAGTCTGGTTTAGTATTAATTTAACCTTGAATAA
GAAATTGGTCTGATTTGCCACCTTCATTTTTCCATCTGCTGAAATGCCATTTCAGAATGTATAAAGTACTTTC
AGAATTAGAAGAAAAGTGAGAGCTTCAGCAGAACGTGTCAAGTCGCTAATAACAGGAGTCGAACCTTATGTTTGA
AAATTAACCTGAGTGAGTTAAGTGCAAGCATAAACTAAAATTTATATGACTTTGAATTTAAGAACCTAATAACT
GTGTTCTAATTAACACAGTAATCTGTTTCAGCCAAAGGATACTAACAGCCATTCTTTGGACTGTGGTTAATTTGAT
AACTTCAAGAAGTTATAACTTTGCTACCCTGGATTCTGATGCAATTTCAATATAAAAAGTTGTTCCCTTCATAGT

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FIGURE 1143C

TTTTCCCCCAAAGAAGTGCCTATTACATTTTACCTTAATGTTTATTTATCATCCAAGTGTCTTGATATAAAA
TCAGTATACAGAAAATTTTAAGAGAACTTACATTCAAGGGACATAGAGGGAAAATGTTAATGTGTATTTTATTGT
TTCTTGTTGGAATTTTTTTTTCATTTCGGTTTGAGAATGGACAGTGTGTCTAAGGATGTGATTTAAATTTACTTAGG
ATGGATTTAGCATTGAGGTTATTAAGACAAAGTTAGCAGAGGCCAGCCAGCACTGTGCTGCACAACTCCAGGAAC
TCCATGGTATGCTCACAATTTTCTGCAAGTTGCCTCCACTTCCAAGTGGCCAGTGATTTGTTAAAAATACCTTGCC
CAAGAATATAACTGATTGATGAAAGGGCATATTTAGGTCAATATAAAATAATAGCAAGTATTTACTGAGAGCTTA
CTGTGTGCTAGGCATTTTCTTAATATTTCAATGTGTATTTAATCCTCACAACAACCCAATGTGGTAGGTTATTGA
TATCCTCTTCTTAAAAATGAGTAAATGGAGGCCAGAGAAATGTAATTTGCCTGAGATCAAATTAAGGTTGCTTA
AGATCAAAGTCTAAGAAGGGGCAGTTTGAGTCTGAGCTAGTGTCTCTAAACACTGGACATTTTGTGTGAACC
ACAGTCGGGAAGGTTTAAATGTTTAGACTCTTTCCTCAGAGGCTTTTAACTACACACAATTTTGACATGTTTCCA
AGCTCAGAAAGCTCATTAAAACACTAAACTG

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FIGURE 1144

MAPVQLENHQLVPPGGGGGSGGPPSAPAPPPGAAVAAAAAASPGYRLSTLIEFLHGRAYSELMVLTDLLPR
KSDVERKIEIVQFASRTRQLFVRLALVKWANNAGKVEKCAMISSFLDQQAILFVDTADRLASLARDALVHARLP
SFAIPYAIDVLTGSPRLPTCIRDKIIPDPITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFR
VEGEFEATLTMGDDPDVPWRLLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC
LSLQLEVLHSQTLMLIRERWGDVQVERYHAGKCLSLSVWNQQVLGRKTGTASVHKVTIKIDENDVSKPLQIFHD
PPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAILRGFNANENSSIETALPALVVPILEPCGNSE
CLHIFVDLHSGMFQMLYGLDQATLDDMEKSVNDDMKRIIPWIIQQLKFWLGQQRCKQSIKHLPTISSETLQLSNY
STHPIGNLSKNKLFIKLTRLPQYYIVVEMLEVPNKPTQLSYKYYFMSVNAADREDSFAMALLLQQFKENIQDLVF
RTKTGKQTRTNAKRKLSDDPCPVESKKTKRAGEMCAFNKVLAFVAMCDTNMPFVGLRLELSNLEIPHQGVQVEG
DGFSAIRLLKIPPCGITEETQKALDRSLDCTFRLQGRNRTWVAELVFANCPNGTSTREQGPSRHVYLTYE
NLLSEPVGGRKVVEMFLNDWNSIARLYECVLEFARSLDPDIPAHNIFSEVRVYNYRKLILCYGTTKGSSISIQWN
SIHQKFHISLGTVGPNSGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMGLTQRTNTA
YQCF SILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLKTFLNMFVDSNQDARR
RSVNEDDNPSPIGGDMMDSLISQLQPPPPQQPFKQPGTSGAYPLTSPPTSYHSTVNQSPSMMHTQSPGNLHAA
SSPSGALRAPSPASFVPTPPSSHGISIGPGASFASPHGTLDPSPTYTMVSPSGRAGNWPQSPQVSGPSAARMF
GMSPANPSLHSPVVDASHSPRAGTSSQTMPTNMPPPRKLPQRSWAASIPTILTHSALNILLPSPTPGLVPGLAG
SYLCSPLERFLGSVIMRRHLQRIIQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQTLQLKLTPEAGQWKP
DELQVLEKFFETRVAGPPFKANTLIAFTKLLGAPTHILRDCVHMKLELFPDQATQLKWNVQFCLTIPPSAPPIA
PPGTPAVVLKSKMLFFLQLTQKTSVPPQEPVSIIVPIIYDMASGTTQQADIPRQONSSVAAPMMVSNILKRFAEM
NPPRQGECTIFAAVRDLMANLTLPPVGRP

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FIGURE 1145A

GGGGCACTGAGGAGCGGGCGCCCGCGGGGCGAGGAGCCCGATGCAGGGTTCTGCGCGTCATTTCCGGTCCCGC
GGGCGCCCCGTGAAGCCACCTGGATCCGCCAGCGCTGTGCCACTCCCCAGTGCCGAGCTCCGAGCTGTCTCCGC
GGCCTCGCGCCCGGCCCTCCACCGCGCACCTCTTAGGCCCGCCCGCCAGCGTCCCTTTGTTGTGAAGGCGCCG
GGGCTAGCGCTATGCTGCGGCGGAGACTGCATCAGGCTCTCGCGTCTGCTTCTGCGCTTTGCTGGGAGAGGC
CCTGGTGGCTTCCTTCTGGCGCCCGGAGTCCCTGCTGCGGCCCCACCCCGGGCGGTACGGTGACCCATGCTG
CCCAGCCTGGAGGTAAAATCGTTCGTGGCTGTGGCTTCAGCATGTCGTCTCGGTGAAAAACCCAGCACTGGAAG
AGCTGGTTCCTGGCTCCGAAGAGAAGCCGAAAGGCAGGTGCGCTCTCAGCTGGGGCTCTCTGTTTGGTCACCGAA
GTGAGAAGATTGTTTTTGCCAAGAGCGACGGCGGCACAGATGAGAACGTAAGTACCGTCACCATCACGGAGACCA
CGGTATCGAGTCAGACTTGGGTGTGTGGAGCTCGCGGGCGCTGCTCTACCTACGCTGTGGTTCTTCTTCAGCT
TCTGACGCTCTTCTCAACAAGTACATCCTGTCCCTGCTGGGAGGCGAGCCAGCATGCTAGGTGCGGTGCAGA
TGCTGTCCACCACGGTTATCGGGTGTGTGAAAACCTCGTTCCTTGTGTTTGTATCAGCACAAGGCCGGCTTT
CCTACCCACCCAACCTTCTTATGACGATGCTGTTTGTGGGTCTGATGAGGTTTGCAACTGTGGTTTTGGGTTTGG
TCAGCCTGAAAAATGTGGCGGTTTTGTTTGTGAGACGGTGAAGAGCTCCGCCCCATCTTACGGTGATCATGT
CTCGGATGATTCTGGGGGAGTACACAGGGCTGCTGGTCAACCTCTCCCTCATCCAGTCATGGGCGGGCTGGCGC
TGTGACCGCCACTGAGATCAGCTTCAATGTCTGGGGTTCTCGGCCGCACTGTCCACCAACATCATGGACTGTT
TGCAAAATGTTTTTCAAAAAAGCTGCTCAGCGGGGACAAATACAGGTTCTCGGCCCGGAGCTGCAGTTCTACA
CCAGCGCCGCTGCGGTGGCCATGCTCGTCCCGGCCGGGTTTTCTTTACGGACGTCCAGTGATCGGGAGGAGCG
GGAAGAGCTTCAGCTACAACCAGGACGTGGTGTGCTGCTTCTGACAGACGGAGTCTGTTCCACCTTCAGAGCG
TCACGGCGTACGCCCTCATGGGGAATCTCCCGGTGACTTTACGGCTCGCCAGCACCGTGAAACATGCCTGT
CCATCTGGCTCAGCGTAATCGTTTTTGGCAACAAGATCACCAGCTTGTGCGCCGTGGCACAGCCCTGGTGACCG
TTGGGGTCTGCTCTACAACAAGCCAGGCAACACCAGCAGGAGGCGCTGCAGAGCCTGGCTGCAGCCACTGGCC
GGGCCCCAGACGACACAGTGGAGCCGCTGCTTCCACAGGACCCAGGCAGCATCCCTGAGAGCAGGAAGCTGCCA
GCTGCTGCTGCTCTGACACTGCATCCCCAGAAATGGGACGGGACGCCCTCTCCATGGCCCTGCTGGGGTG
CAGGACATGGGGAGCTAAGTTGGCCATTGCCTGCGGCTTTCTCGGTTTGTGCGTGAAGACCAGCAGAACTCAA
CTGGGGATTCCAGGTATCAGCTTCTGGAGTAGACACCAGACAGTAGCTGACTGTGTCCGCCGAGCCCATCCCC
GTGTAATGTGAAAACAGCCTCTGAGGCTCCATGCTGGGGGTGCCCACTTCTCTGCGGCACACCCAGGGTC
CACCGGGAGCCAGAGGTGGGTCCAGTGCCAACGAGAGCCGCTCCCTGCCACAGCCAAGAGGCCCTCGGCTTCCC
ACACCAGCCATCGAAGGCCCTGAGGCCCTGACCGGCGGCAGACTGGCCCTGGGCATGAGGCCACAGAGCAGGGC
CGAAGGGAGGGGACAGAGGGCCCTGGAAGGAAGGGTCTCCTGCTGCCACGGTGGGCACTCAGAATTTCTCCAC
CTGACCCAGGGCTGTGGGCATCCTCAGACTATCCAGAGGCATCGCAAGCCTCAAGCTGCAGCATTGCACGGCAC
TCAAGGGCTATGACCACGGAGGCCGTTAGTTCGCTTCTGTTTGAAGGAAGGCCCTTACCTCTTCCACACCTGC
CCTCCTATCCCTTCCACACCTGGGCTGCATGAGCTCCCCGCAACCCAGGGCACCTGCCCTCTACCTGTGGG
GGTTTCCAGCCCTGAGGTTGAGGACAAACCTCTCGTGTTTAACTTGGGAGGAGATGTGTACGTTTCTTTTCTTT
TTGGACTCTGAGTATGAGGCAGGCTGTTCTGAGGTCCCCGTGGGGTGAGCCTGTCTGTCTCCCTCAGAGCCAC
CGTTCCCTATCATCATCTAGCACCTGTCCGGTTCCCCACGTGAGCCTTGGGCAGGACGCTGCAGTGTGATGGTT
GGGTTACGTGCGGTTTACCTGGGCGCCGTCCTTGTGAAAAAGGAAACGTCCACACTGAATGTTTCTGGGGCGCG
TGGTGTGTGTCAGGCGCCACCTGTCCACTCTCCCAAGGGACAGTAGTACGGCACACTGGGGCCACCAGCCA
GCTCAACTCATCCTCTGTGTACGCACCCCGAGGGCGCAGGAGGCCTGAGGAGTGGCTACTGGAGCCGTGTGT
TAGGCAGAGGCTTCTGACCATGTCTGAGCTCTTACCCCAATCTCGCAACCGGCGGATTCCCATGCCCGGTGCA
GCCTGTTGCCAGCCAGCCTTTGAGACCCAGAGCTCCAGGGCTGTGTCAGAGGCAGCATGGGGCTCCAGTGGTCCCG
AGTCTCATTTCCCTGCCTGCTCTTAGGCCTTTGGCACCCATGGTCACTTCACTGGTTTTCCATTTGGCTTCTCA
CCTGGGAAATACAAAAATAGCCCTCCTGAAGATAAAATCGTTCAGAAACAGAGCAATAATTCTGACTCATTAACT
TTCTACCTACTCAAAAAAGTCTGCCATGATGATGGACCGAAGTGAGGCTTTTAAACCCACAAGTAACCTTTTTAT
TTTTTTGAGACGGTCTTGTCTGTACCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCGCTGCAGCCTCGACT
TCTTGGGCTCAAGTGATCCACCTCAGCCTCCCATGTGGCTGGAAACCGCAGGCACGTGCCACCATGCCTGGCTATT
TTTTTGTGAGCTGGGCTCTCGCTTTGTTGCCAGGCTGGTCTTGAACCTCCTCGGCTCAAGCAATCCTTCCCACT
CAGCCTCCTGTAGTGTGAGAAATATAGGCGTGGGCTACTACACCTGCTTCAGCCGCTTCTATAAAACCGCTGACC
TGTGTGTGGAGGACAGGCCAGGTGTGTGCTCACTGCGCTGCGAAGATGTTTTGTACAGTGAATTTCCCTGGGTTT

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FIGURE 1145B

CCATTTCCTTTTTCTGCTTTCCTCAAAAATAATAGAAGACCGGCTGCGGTAGCTCAGGCCTCTAGTCCCAGCA
CTTTGGGAGGCTGCAGATGGCGGATCACAAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGATGAAACCCTGT
CTCTACCAAAAATACAAAATTAGCTGGGTGTGATGGTGGGTGCCTGTGGTCTCAGCTACTCAGGAGGCTGAGGC
AGGAGAATTGTTTGAAGCCAGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAA
CAGGGCAAGATTCCGTCTCAAAAACAAACACTATTAGAAAATGCTCTGGAGGTGGCGGGGAGTTGTGATTTGTG
AGGACAGATTGAAAGCAACTCCCAGGGTGGCCTTGTCCACCTCCCCATCGAGAATATGGCTGCCGGCCTCTTTGA
AGATTGTGGTCTGGCATAAGGAGAGGTGCAGGCGCCTGGTTCTGAGCACCTTGGAAATTCAGCCGCACAGCATC
TGGTGGCCTCCCTCCACCCTCACAAGGAGCTGCCATCCTGTTTGGATTTCTGTTGTGGACCAGAAACAAACG
TTTTCCAAAGGATTAGCAATAGGTTGATTTCTGTGTAACGCTGCTCTGGGGCCTCTTCTCATCCTGGCAGA
AGGAGCCTGGAGCCCATGAGGCAGCCAGCACTGTGCCCTTGCTCAGTCGTGCTGTCCCTCCCTCTCCCTCAGTC
TCTTCTCCATGCCCAAGTCAGTTTCCAGCCGCTGGTCTTCATGGCATTCCAGCACAGCTGGACACCAAGAGGCA
AAACCCAAGGCCTGGCTTGGCCGTGTTAACGATTGTACAGACATTTTTTTAAATAACTTTGTGTAATACTTTTCT
AGAATAGTAAGTTCTTGTGAACTGTACAGATGAGCTTCTAGGAACACACCGGGTGTGGTTACTTCCACTGGGT
GTGTCCATGGTCTGGTCTGTGCCTTTGTAAACAAACAGAACACTTGAACCACCTTCCGAATTGGGTCAICGGCT
TCTTTACATTGATACTTAGAGATTGTCAGCTCTCTAACTTTCAAGGAACTTCCCCTACTGAAAGGCATAAAAAG
GTTAAAAAAGAAAATCCGAGAGTCCCAATTCCCTGTATAACAGCATTAAAATAATCTGCCTGCCTGGAAAGATGA
GAACACTGTTGCACAACCCAAAATGTGTTTTTAATTTGTGAAAAATTACCATGGTGAGTCAGACAGTCATTTTAA
ACAGCTGAACAGAGACTATCATCAGCAAATAGAGCTCAGCTTTGTAGCTGCCTTTAAAAATCCTTGTCCCAATCC
GGTGAGCTCTGCTTGCTGCCGCCGCGCTCCTGGGTGATCACTCAGACGGGTGAGTGGGAATAACGGGCCAACAA
ACAGCTTTTTACATGTGTCCAAAGGATGGCCTTTGAAAGCCTGGAAGTATTTCACTGTGGAAGAAGTAAACAA
GAATGACATTCCAGATGGAATAGAATTCTCTCTTGTGCTTTGACCAACATGGTACTAAGGGGTTTTCTTTCT
CCAATGTATGTACGTGCCCTGCTGGGGCCTTACTTTATAGAATGAGAGCATCCGAGCTTCCCTAATGAATCTGG
CTAGTTCTGTGTCTGGCTGAGGATACAGGAGTGGGACATCCACTCTCGGATCCCTCAGAGCACAGAAACCTTCAG
CTTTGCTGTCTCTGAAGTATTTCCCTCCAGTTTCCCTGCGGGCCCTATGTTTGAGTTTGATGGCTGCTGGATCCT
CACTCAACGAAAACTCGGTTGAAACTGTTCCGCCTGGCAGTCCTTTTTTGTGTTTTCCATCTCATTTCCTTC
CATCTGAAAGTGGCATTGAGCTGACTTGCTCATTAGACTGTTACGGAGTCTGAATCTGCCAACGTGGTGTGG
AGGCTCCACCTTGAAAAGGGCCACAGTCAGGGCAACTTTCCCATACAGGAAAACCTTGAAAATTACATCAACAGT
CTACGTCACAGCCAAATTATATTTCCCTTTATACCAAAACAAAACATATGGAGAACTAAAAGTACATCACACAAAACG
TTTATAGTGTGTTGCAATGTGACCTATTTAGTATTTATATAACTAGATTAGTGCTTTCTAGCAAACGGTTCTGTT
AATTAGCGAGTCACTGTTGATTCTGCTGTGGTGGTAAGTTGATACCGTGTAACATAATCCCGTGGATGCCTCCTCG
TTATTTTTGTCCAAACGAAGCAGCCGTGGTAGTGTCTATGATTCTTGCTCAGCAAAGTAAAATAAATGTTA
AATATGG

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FIGURE 1146

RYACGGDCIRLSRLLLRFAWERPWWPRSWRPESLLRPHRAVTVTHAAQPGGKIVRGCGFSMSSSVKTPALEELV
PGSEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITETTIESDLGVWSSRALLYLTLLWFFFSFCT
LFLNKYIISLLGGEP SMLGAVQMLSTTVIGCVKTLVPCCLYQHKARLSYPPNFLMTMLFVGLMRFATVVLGLVSL
KNVAVSFAETVKSSAPIFTVIMSRMILGEYTGLLVNLSLIPVMGGLALCTATEISFNVLGFS AALSTNIMDCLQN
VFSKKLLSGDKYRFSAPELQFYTSAAA VAMLV PARVFFTDVPVIGRSGKSFSYNQDVLLLLTDGVLFHLQSVTA
YALMGKISPVTF SVASTVKHALSIWLSVIVFGNKITSLSAVG TALVTVGVL LYNKARQHQQEALQSLAAATGRAP
DDTVEPLLQDPRQHP

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FIGURE 1147

CCCACGCGTCCGCTTTAGTGCGCTCGCCGTCGGCTCTACCTGCGTGCTTTAGCTCCTTCTCGCCTGATCCTTCTG
TCTCTCCCAACCCCGGACACCCGGCTTCGACTGGTTATATCTTCGGTGTTCTTTTCTCTCTTCTTCTTTTCGCGG
TTCAGCATGCAGGAAAAAGACGCCTCCTCACAAGGTTTCCTGCCACACTTCCAACATTTGCCACGCAGGCGATC
CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAG
CAAGGGGGCGCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAATTGCCTTGAAAAA
GCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGGTTTAGCAGCCACTGTAATACTATTACC
CATCTTTTAAAAAGCAGGAGACCAAATTATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAA
GTGGCATCTGAATTTGGATTAAAGATTTCTTTTGTGATTGTTCCAAAATCAAATTACTAGAGGCAGCAATTACA
CCAGAAACCAAGCTTGTTTGGATCGAAACCCCCACAAACCCCAACCCAGAGGTGATTGACATTGAAGGCTGTGCA
CATATTGTCCATAAGCATGGAGACATTATTTTGGTCTGGATAACACTTTTATGTACCATATTTCCAGCGCCCT
TTGGCTCTGGGAGCTGATATTTCTATGTATTCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGC
CTGGTGTCTGTTAATTGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAACTCTCTTGGAGCAGTTCCATCT
CCTATTGATTGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGA
ATGGCAGTTGCCAGTTTCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCATCCA
CAGCATGAGTTGGTGAAGCGTCAGTGACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGCACTCTTCAG
CATGCTGAGATTTTCTCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTCGAAAGCCTTGCT
GAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTCCTTGGAATTAGTGACACACTG
ATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAAGCTTTGAAGGCAGCACAC
CCTCCAAGTGGAACTCACAGCTAGTATTCCAGAGCTGCTATTAGAAGCTGCTTCCTGTGAAGATCAAATCTTCCT
GAGTAATTAATGGACCAACAATGAGCCTTTGCAAAATTTTCAAGCGGAAATTTTAAGGCACCTCATTATCTTTC
ATAACTGTAATTTTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAATTC
TGTTAATATCTTTTGTAAATTTTGCTCTATGTTTGCTCTGAAGGAGGTGAGATTGTGCTACTTTGGGAGATT
ATGTTCTTTTTTCATGTCTAAGATTTATTTTGATCATGTTTATAATATAATGGTAATTCATTTTTGATGTTTTGT
GAAGAATTTAAATTTAAACGAATGTTCTTAAATCAAGTGTGATTTTTTGCATATCATTGAAAAGAACATTAAAA
GCAATGGTTTACACTTAAAAAAAAAAAAAAAAA

1277/2682
FIGURE 1148

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSGNPTRNCLEKAV
AALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPE
TKLVWIETPTNPTQKVIDIEGCAHIVHKKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVMGLV
SVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQH
ELVKRQCTGCTGMVIFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIR
LSVGLEDEEDLLEDLDQALKAHPPSGSHS

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FIGURE 1149

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCGGTGCCAGGCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCTGAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTGAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCTGCGCTCTGTGCCATTGACATTACACAACAAGACGCTC
TATCACATCACACTCTGGACCTTCCTCCTTGCCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCACGATTGGCGTCTTGGCACCCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTGGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAAAGTGGGCCAGCATTATCACCTCCAGGACTTTCTC
GTTTTCCACCTTGGCCATCTTCTTCCTTCGTGCTCTCTCCTCTTTAATTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACTTTTAGCCTCTTTTTTTAATTTTTAAATTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCCTGTGCTCTCCTTCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACATGAAACTTAAACCTGCTGCCCACCCAGAGC
AGCTGTGACCAAGGGCTGCTCAAGGGGTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCTGTGTGTGAGCAAGACCAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTGTGTAAACACT
TTTGTAAATAAATAGAAAAACCCTCTGCTCTGATCAGTTCTTGTACTTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCTCCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACCCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCCTCCGGCTCCTTACTGTCAATTTGCTCATTCCCTCTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCACAACTAAACACTAAGTGCCCTTCTTATTTCTCCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAACTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCTACCCAGAGGGCCTCCCC
AGCTGGACCTCATAACAGTGTGTGTATCCAAAAGGCCATTGCTATTTAGCAAAATATTTGTGAGTACTTCTC
CATGCCGGACACTTGGGAAGAGAAATGAACGACACAGGCAATGCCCCTGCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACACAAAAATAAGAAGTCAAAATAGGGATAAGAAGTCTAACAAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCTCCCTG
AGGAGATGGATTTTTTTTTTTTGTTTTTTAGAGACGGGGTTTCACTCTGTACCCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAAGTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAA

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FIGURE 1150

MSRFLNVLRSWLVMVSIIAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVPEVSRQKKRN

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FIGURE 1151

GCACAGGTGCGGCTCCGGCTTACGGCGGCGACGCGGCGGAGGCGGCGGAGGCCAGAGGCGCTCACCTCCTAGG
AGTCCGACGCGCGGCGACAGGGCGGTGGGGAATTCACAAAGCTCGTCGAGCTTACCCGGGCACCGAGGCCGAGT
AGGGGATTTGGATGCGCGGGTCCCGGGTGGGGTCGGGGCCAGAGGGGGTCGCTAGTGCGGGTGTTCCACGGCTGA

TCACGCTTCGTTGGCCCCAGGCGGTGGGCTGCCGGCAGGGCAGGGCGCTGTAGTTGACGGGAGCTGCGGGGACCC
CGGAGACCCGGACGCCCCGTACCGCCCCCTCCCCAGTCCAGCAGCGCTCCGCGGGGATGCCCGTGGTCTCGAC
CCGGTCCGTACGCCCCGGCGGCGCAGGGATCCGCGCCCGGCGCTAAACTGCCCTGGTGTCTCTTCGTTCTGG
CCCGGGGCTGGCGGGGGAGGTGCAGCATTAGGGGCGCTGAGGTGACACCCGAGAACTTCCAGGGAGAGGGTGC
GCGGGGGGGTGGATTTCCACAGTCCTTCCCGCGGCCCGCGGGGGGGCGGTGTTGGGAGGGCACTGGGGTTAT
CCCAGGCTCGCCGGTGGGGGTGGGGGACTCCTCCCTTTACTTCCCTCCACCCCTTGCACACCCACCCCGAGG
TTCCCGTGTCCCTTGTTCTCCCTCTCTCCGGTTAGAGATAGGTGGGTGGCTTTGAGTGGGCGGAGGACTTCAGG
GTTTTAGGGGCTCCCCATTCTAGGTCATGCCTCTTGCTCTCTTCCCTGGCCTGTGTTGAGTAAGGTGTGTTCCCT
GTGGTGGACGAAAGTCTGTACGATGGTTGGTGGCATTGGTCCTTAATCCTTTGGGTCTGTTTTAAGGTAAAGTGC
TGAGAGTTTGGGAAGCAAAAATTTCTATTTATTGGATTTCTTTTGGCTTTTCTCTCAAGAAGGAAGTGAAAAAG
AGTCTTTTCTTTTCCCTCTTCCCTCATTGTCATTCTTTGTGAGGTTGTCTGCCTTGTGCTTTTTGTCCCGGAT
TAGTCTTGTTGAAGGATGGAGATTCCCAGGCGTGGAGTCTATAGCTTTTGGCTTCCATTAAAGTAAATCGCTAAC
CTTTTTTTAAGAGAAAGTTAATTTTTGCCTGCAGTCATTCCAGAAAAATAGTGTACACGGACTAGCTGAATTAAT
CCACTTAAATTTGTAACCTAGTTACATATGGTAGATATGTTAACTCCTATCTGATTTTTTTGGATGAACTGTTG
TTTTGTTTTTAAATAGGAGATGAAGTAATGGATTTTTTCCCTCCCTTAAATGGCATAGCTGAGAAAGCCCCGG
TACTACTAATTGAGATGATCTGCTTAAGAGTCTTCATATTCTGAACCTCGAAAGGCCTTTATGTTATATTATTC
TCGCTTTACGCAACTCCAAATTGCTTTCTATTTAAATGAATGTTCTTCTAGTAACTGGTGTAGATTTAAAGA
AATCACTCAAGCTTCACCTTGGTAACTGAACCTCAGTTTAAGATTAAAGAACTGATTC

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FIGURE 1152

AQVRLRLTAATRRRRREARGAHPPRSPTAATGAVGNSQSSSLPGHRGPSRGFGCAGPGWGRGQRGSLVRVFHG

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FIGURE 1153

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCCTTCG
AGGGCGCCCCAGGCCGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCCAGAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGCGCTCATCATCCCCCGACGCCGTCGCGGTGGACTGCAAGGACCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGATGTGCTTTGGACTAGCATTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACCTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCCTGTCCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTGATGACTTTTACAAGAACTTACAGCCTATTTAGATCTTAACCTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCTATCTGATTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAAGGTATTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTTGAACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCACCCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTTATGTAAGTAGCAACAGGGCTTTACTATCTTTTCATCTCATTAAATCAATTAAACCAT
TACCTTAAATTTTTTTCTTTTGAAGTGTGGTGTCTTTTATATTTGAATTAGTAAGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTATCTGGATTTTATGTTTTATT
AGCATTTTCAAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCATTTGAGCACACATTTTAAATTTTCTCTAATTAA
AATGTGCAGTATTTTCAAGTGTCAAATATATTTAACTATTTAGAGAATGATTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGAATTTAAGAAATAACTGTGTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAAGAGAATCCACATAAAAGAAGAACTATTTTTTAAAAATTCAC
TCTATATATACAATGAGTAAATCACAGATTTTTCTTTTAAATAAAAATAAGTCATTTTAAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 1154

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDVAVDCKDPDDVVPVGQRRAWCWCFCGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 1155A

GCGCCCCGCCCTTTCTCGCCCCCGGAGGTGACGGGGTGAAGGCGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCCGAGCCGTCACCCGCGCGGTCACGGCTCCCGGCCCGCCCTCCTCT
GACCCCTCCCCTCTCTCGCTTTGCCCTCTCCCCCTCCTCCGCCAGCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTTTTCTCCTTCTCGCAGCCGCGCCAGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCGA
GATGAATCCTGCGGCAGAAAGCCGAGTTCAACATCCTCTGCGCCACCGACTCTACAAGTTACTACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAGAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAATACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTCTGAGGGCTTTGTCAT
TCCCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGAC
TATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATCTAGAGAGCAGAAAGAAAATATTGGCCAAATA
TTTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAAGAAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAAACACAGTACCAT
AACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATAATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCCACCTAATAATCAGACCTGATTCTGGAACCCCTCTTGACACTGTGTTAAAGGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGGTTCTGGTGGAGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTTCAA
GTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGCTCTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTTACTGGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAAATGGCAAGGTGACAAAAGCTATTCTATTGATGA
AATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT**TAG**CTTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATAACTGATGATCACATAAAACAGATTTGCA
TAAATTACCATGATTGCTTTATGTTTATATTAACTTGTATTTTGTACAAACAAGATTGTGTAAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAACTTTTCATGATTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTTGTGTTATTGT
ACAATTTGAAAATTATGTCCGGACATACCCTATAGAATTACTAACCTTACTGCCCTTGTAGAATATGTATTAAAT
CATTTCTACATTAAGAAAATAATGGTTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGATTGTACCACTGAAATGCCAAATTTGAAAGGCTGTACTGCAATTTTATATGTACAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAATACCTTACAAAAGTGGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGAGTGTACTTAAATGTTTCAATTCTGTTATATTT
TTTATTAAGTTTTTAAAAAATTAAATTGGATATTAATTTGTATGGACATCATTTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAAATGTTCTAGAGTGATTAGCTACTAGATTC
TGAATCATACATCATCTGACTAGAGACCAGTTCTTTTCAATGATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACTATAGCCCAAAGGCCAAATTTGGACTTCTTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGCCCAAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTTAAACATGACATTAATGTGAAATT
TTAAAAATTGAAAAGCCATAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTGTAAAGTGGTATTAGAAAAGAAATATGTTTTTCAGATGGTTCTTTAAACA

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FIGURE 1155B

TGTAGTGAGAACATAAGCATTATTCACCTTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAAGAACTATTACCAATAATAGTTTTGATAATCACCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTCAGCAGCTTCAGAATAGAGTTTAAATTTAGAAATTT
GCAGTGAAAAAGCTATCTCTTTGTTTACAACCATAAATCAGGAGATGGAGATTAATTCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATTCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTACCCCTTAAATCAGTCTAAATCTTCCAGACAAAAGCAAA
TGGCATTATGGAATTTAAGTCATTAGATTTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAAGTAAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTATAATGAAATCTATCTTGGA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTTGTAG
TTTTACATTCTTTTTAACCCTTCAGTGGAGAATGTCAGCTTTTCTCCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTTAAA

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FIGURE 1156

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEETVFYGLQYILNKYLKGVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVPEGFVIPRGNVLFVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPDsgnPLDTVLKVLILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRSLHRTPAGNFVTLEEGKGL
EEYGQDLLHTVFKNGKVTksysfDEIRKNAQLNIELEAAHH

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FIGURE 1157

CGCGCGGCCCTGTCCTCCGGCCCGAGATCAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAGGTAAAGTAGTAACCAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTC
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTCTGAGGGCTTTGTCAATCCAGAGGAAATGTTCTCTTCACGGTGGAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTGAATTGTTCTTCAAGTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGTCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAAGCTATTTCATTTGATGAAATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTTATGACTGGGTGTGTGTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTATGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTCATATAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGATTTTTTGA
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTTCCAACTTTTTCATGATTTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCATAGAAATTACTAACCTTA
CTGCCCCCTTGTAAGATATGTATTAAATCATTCTACATTAAAGAAAAATAATGGTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTTATGTACCAGTGAAATGCCAAATTTGAAAGGCCGTGACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTATAGAGAAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAAATACTTACAAAAGTGG

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FIGURE 1158

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVYEETVFYGLQYILNKYLKGKV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPKAVPEGFVIPRGNVLTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEKLDHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPDSGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTFAGNFVTL EEGKDL
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1159

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACTCCTCTGAAGCAAG
CTCCGGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGCAGAGTGAAGAGAAGCCCGTGCCTGCTGCGCCTGTGCCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAA

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FIGURE 1160

MTTTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPETEQPVVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFDLKGEGDIHENVDTDLPGSLGQSEKPVPAAPVPSPVAPAPVPSRRNPPGGKSS
LVLG

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FIGURE 1161

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTCCGAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTCTTGTGTGAAAAATGAACTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTCAAGGGTCTATTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTCAAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGGAAATAAACTTGGTTTACTG**TAAT**AGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTTTATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTAAAAATTTGGAGGGGTCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAACAGTAGCCTTTGCTTTAAAAAAGTTGTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCACCTGTTTCTAGGTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAATTGATTTCA
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCTGTCATTAACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTTGATTATTTCAAGTTGAAAAGTAGAAGTTCCAAGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTTAAAGAAAAGTAAACTCATTTTTTCTTGTTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTGAACATTAGTGAATGG
ATCATCTTTTACAATTAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1162

MNARGLGSELKDSIPVTELSASGPFESHDLRKGFCVKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1163

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACCGCCGCTCAGGGTTTTAGAACTTCAGCCATAAAAAATGGGCAGAATTTTCCTTGATCATA
TCGGTGGTACCCGCTCTGTTTTCTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAAGTCACTCCACTC
GTTTCACAGGCGCCACTGGCAGAGCATTCTTTTTAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCATGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAACTGCAATAGCAAAGTGGGATGGATCT
ATGAGTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCTGATCCTGGAACGTGCTCTAGTTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTCCAGGTCT
CCTTCACTGAAAACAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAATGAAGTCCGGAAC
AAGAGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTAAATTTGTATTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAAGTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAGAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATCTTCCCTTGTC
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCACCACATAATTGGTGTGATTGGAACCTTTTTCTGA
GATGGGACAGAACTGCTGGGTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAATAAAGTAATAGTTGGAT
GCTTTTGGTCTGTGTTGCTTTTAAAAACACCTTATAAAGAGGAGAGTATTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTCATCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCGAGTGTTCATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTCATGCAAAAAACATTTAATCT
GCATCTGTTTGTAGAAAAGGGGAAATGAAGCACTTGTCTAAAAATACTGCTTTACAAAGCATTTTCAGCCTTTCC
CCCTCAGTTTGCATTGATTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCCTAGATCTCTTATT
TAGCATTTTTTTCAGCTCTTCTCTCAGAAGTTCAGCTGTGAAACGAAAACGTACTTTGTACCCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTATTTTTAGCCCCAAATTTATGACATTACACAATATTAAAAATGTAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTGCTTCTGGTGAATTAATGACGGTAAAATTTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCTTTGTCTAGAAAGGAAATTTGCCTCAG
TTGAATTAGTGAATATTTCTGTCGTTGATATTAAGTGAAGTCTCTGAGTACAGTTAAGTTCCCTATTTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAAGTGAATTAAGTGAAGTATGATACTGCATTTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCATTTCCATTCACTTCCATACTGGCTTTTGAT
TATATGCAGATTCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTTGCTGTCACAATAAAGTATATTTGT
CTTGCAA

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FIGURE 1164

MGRIFLDHIGGTRLFSCANCDTILTNRSELISTREFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVCKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPSDNS

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FIGURE 1165

GCGACTCGTCCCGCCTTCTGGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAAGATGGCGGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTCATTACAGGAACCTGCTAAGAATCGGCCCCGTCCCGAGACACGATCAGA
CCTACTGCTGTACAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTTCTCCATGGATTTCGTCCAGACTCAAA
AGTGGAGAAGATTTCGCAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCTGCTGCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTGGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCAATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTCTTCTGACCAATAAGAAGGGATTCTCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCAGGACACAA
CCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCTCTCCACCTAA
TGCCTATGAACCTTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGAGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTCACTGAGCTTCTGGGCTCATTTGCTGACAATGAATT
GTGCGCTGAGTGCCTGGATGGAGCCAGCACTTCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCTGA
GGCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCCTGGGATGTTCTCATGGTTTTCCATCCTCTTCCCTATTAAAGCAGCCCATAAACGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTATATAACCCACAGGCCGCTCATATACCATTTGGCCTCTAGCCCTGCGTGCCAAGTGTCCA
GAGCCTTGGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCATCTGCTTTTCTGCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGGTGAGGAATTAGTGTGGATTGGAAGCTACGC
ACTCAGCCTCAAGAATCCCTGGAATATCCCTGAGAACATGGGGTTTGAACGGATTTTCAGCCTTTTTCTGTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1166

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPIRPSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDI IENAPTTHTEEYSGEEKTMMWWHNFRTLCDYSKRIAVALEIGADLPSNHVIDRWLGEP
IKAAILPTSIFLTNKKGFPVLSKMHQRLIFRLLKLEVQFIITGTNNHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPQLQPLMDNLESQTYEVFEKDIKYSQYQQAIYKCLLDREVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAQADRRIKLYAVEKNPNAVVTLENWQFEWGSQVTVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSKLYNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFTFSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMFSWFPILFPIKQPITVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 1167

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCCATGGCCACAAGTGA
ACAGAGTATCTGCCAAGCCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTTCAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCCGCCAGGTCTACGGCTTAAACTTTGCAAGTAAAGAAGAGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGCCTGAACATCATGAATTCCCAAGAAGGAGGCCCTCCAGCCAGCGTCAGGTGCAGAAATGG
CCCCCTCTCTGATGAGATGGACATCCAGAGAAGACAAGTGATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCCTCCACCGCCCCCCCCACCCCACTCCACCTCCACCCACTGGGGCTACCCACCTCCCCCACC
CCCACTGCCAGCCGGAGGAGCCAGGGGTCCAGCCACGACGAGAGCTCCATGTGAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCACTGGGACCTCAAAGTC
CGATGCCAACCGGGCAAGCAGCGGGGTGGCGGAGGAGGCCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCCACTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACGTAAGGGCCGGCCTCGCTGCGCTGATTCTGTCGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTGAACCTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCCTAAGTCACCTGCTTCATTAGACGGTTTCCAGGTTTTCTCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCAGCGTGGCGCCACCACACACCCGAGAGCTGTCCAGGCAC
AGCTCCGTCCTCCAGCGCTCATGGTGTGAAACTGTCTGTGATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MATSEQSICQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHTASNTFRVVGVKLQDQQVVINYSIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

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FIGURE 1169

GGGCTCTCTCCTTGTCTAGTCGGCGCCGCGTGC GGGCTGGTGGCTCTGTGGCAGCGGGCGGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACATGGTGCCATCCCTCAGA
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGATGGAAAAC
CAGAAAATGAGTTTTCGTTTAAATGCAGAAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAA
AAAAAA

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FIGURE 1170

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPYADKDVHVMVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRRYKVPDGKPENEFAFNAEFKDKDFAIDIKSTHD
HWKALVTKKTINGKGISCMNTTLESFPKCDPDAARAIVDALPPCESACTVPTDVKWFHHQKN

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FIGURE 1171

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG
GCGGCACGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACASGTGGCGCCMGSAAGMRGGTTGCTGTGTTG
TGCTTCCCTTCTACAGCCAATATGAAAAGGCCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGT
ATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCACAAGAAGC
CTAGGAAAGACCCAGGAGTTCAAAACAGTGTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGAAAC
AGAGGCTTGAAGAACTAAAACAGCAGCAGAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAAGAACTTGAAA
CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGGAGTTTGGGCTTTGCAAACTGAGAACAAG
CCAAGTCGGGCAAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCTCCGATGTTG
TCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGAGTG
GACAGAAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAGGAGAATTTGGAGAGCTGGCTAAATT
ATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCAAGC
GTGTGAAGGCAAGAAGAATGCTGCTCCATTGAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAACTTC
TTGGAGGTTTTTCAGGAACTTGACAGCAAAGCCATTCCGGTTGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCA
GCATTATCAATAGCTTAAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAG
TTGTCCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTG
CGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGG
CTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTATGCTTG
CTCAGAGAAGAGGTATGCACCAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAAACTGCTGTGGTCTGAGT
GGACAGGTGCCCTCATTAGCTTACTATTGCCATCCCCTACATCTTGGACTCCTCCTCCATATTTTAAATGAGAGTA
TTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
AGGGCCCTCATTGCGCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGGACA
TACATGAAGAATTGCCAAAACGGAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAGACAGTGACCAGGAAA
CTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGCTGCAGAAGAGACAGGGGAGGCACTTCTGAGGA
GACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGGATAAAATCATTGAAGAGGATGATGCTTATGACTT
CAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTAAACATTTTAAGCAGACTGCTAAAC
TGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGCAAC
TTGGAATCCCTAAATTCGTGIAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAAGA
AGATACCTATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREAELRKQRLEELK
QQQKLDQRQKELEKKRKLETNPDIKPSNVEPMEKEFGLCKTENKAKSGKQNSKKLYCQELKKVIEASDVVLEVLD
RDPLGCRCPQVEEAIVQSGQKKLVLIILNKSDLVPKENLESWLNLYLKKELPTVVFRASTKPKDKGKITKRVKAKKN
AAPFRSEVCFGKEGLWKLLGGFQETCSKAIRVGVI GFNVGKSSIINSLKQEQMCNVGVSMGLTRSMQVVP LDKQ
ITIIDSPSFIVSPLNSSSALALRSPASIEVVKPMEAA SAILSQADARQVVLKYTVPGYRNSLEFF TMLAQRRGMH
QKGGIPNVEGAAKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIVVDMKSGFNLEEELEKNNAQSIRAIKGPHLAN
SILFQSSGLTNGIIEEKDIHEELPKRKERKQEEREDDKDSDQETVDEEVDENS SGMFAAEETGEALLRRLQQVNS
LQGLLSWIKSLKRMLMTSVQIMCNRTMAFYDFFF

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FIGURE 1173

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTA
GCTGCAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTCTTGGGGGAATCAAAGAGAA
ATGTGCCTCATTGCCATTTGAGAAAATGCAGTCTGGTGTATTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAGTAATTCTGGATTTGACATTCTCATTAGAGAAACCT
ATTTTCTTTTTCTTTTTCTATTTTAGTGTTCATTTATGTGCGGTCTCCAATTTAGGACTTTCCATAGTGCCA
AAGCCATACATATTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAAATAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1304/2682
FIGURE 1174

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYN CNVELALTS DGR TIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

1305/2682
FIGURE 1175

ACAGGGGAAATACCGCGCGCCGGTAGTTGCTGTGGTTTCCGTTCTGAGCTCGCAGCTTAGGAGCTGAAGATCGC
GGACTTAGCGTTGCCGCGTCCGAGTCCGGCCATCAGTGGCTGCAGATCCGGAGCCAGGAGCTCAACCACCTTCT
TCGGAACAGGGCCGGCCTGCTGCTGTGCCCTCGACGCTCGGTGCCTGTATCTACTCCGGGGCCTAGGTCGGCTCC
GGGGGCGGCTTAGGAGAAGGCCGCCGGCGAGATGTTCAAAAACACGTTCCAGAGCGGCTTCTCTCCATCCTCTA
CAGCATCGGCAGCAAGCCTCTGCAAATCTGGGACAAAAAGGTACGGAATGGCCACATCAAAAGAATCACTGATAA
TGACATCCAGTCCCTGGTGCTAGAGATTGAAGGGACAAATGTAAGCACCATATATCACATGCCCTGCAGACCC
CAAGAAGACGCTGGGAATTAACTTCCTTTCTTGTGCTGATTATCAAAAACCTGAAGAAGTATTTTACCTTCGA
AGTGCAGGTACTAGATGACAAGATGTGCGTCGTCGCTTTTCGGGCAAGTAACTACCAGAGCACCACCCGGGTCAA
ACCTTTCATCTGCACCATGCCCATGCGGCTGGATGACGGCTGGAACCAGATTCACTTCACTTGCTAGACTTCAC
ACGGCGAGCATACGGCACCAATTACATCGAGACCTCAGAGTGCAGATCCATGCAAATTGTGCGATCCGACGGGT
TTACTTCTCAGACAGACTCTACTCAGAAGATGAGCTGCCGGCAGAGTTCAAACCTGTATCTCCAGTTTCAAGCAA
GGCAAAGCAATAACTGGAATTGTGACTCGAGGGATAGACCCCTGGATGTGACTCTTCTTTTTAAAGGAACTAT
GTGGAGGACGATGCAAAAACATATTATCTTAGTTTGCTCTGCTGTAGTTCTGTTATTTATACTTGGTGTGCTT
GTCATGGACACCGGTGAACATGCCGTAACTCTGTGACTGCATTGTAAGTGCAGTGGGGGTAAGCAGTCTGTGAG
TGGCGCATGAACGCTGGAGCTTATTCGCCCGCTGCCCCAGTGTGGGGGAGATACCTTTACCATGAACTTACAG
AATTAAAGATGGCCCATAGGAATCCAGACCAATATTCTTCTGCGGTTTATTCTATGTTTTATATATTATCT
AAATATATGTATATGCTGTGTCATACTCATAATCTGGAATGAATAAAGTGATATATTCTGGTTTGTAAAAAA
AAA

1306/2682
FIGURE 1176

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPF
LVMIIKNLKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLLDDGWNQIQFNLLDFTRRAYGTNYIE
TLRVQIHANCRIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ

1307/2682
FIGURE 1177

ACCCCATCCCCACTCCTATACCGGTCCTCCATTTTGGTGCCTGCAAAGCTCTGGGAAAGAATCCCGGGAAACGA
AAAATGGTGGGTTTGGGGGAAGGGAGGTAAGGGGAGAAAGCTGGAGGGAGGGGCTTTAATTGGAGGCCCCGTAGA
GGACGCGCGGAACCTTCTAAGGTGGGAAAAAACGAAATTAATAAATCCTTTGATATCAGGGCTCTGAATCCTGCTG
GTCAGAGCACCAAGCATTTCAGTCTCTCTCCTTGCCCTTTGTCTTACTTGTGTTCAAAGAAAAACAACCAGAAAAAA
AAAATCTCATCATGGCAAATATTCACCAGGAAAACGAAGAGATGGAGCAGCCTATGCAGAATGGAGAGGAAGACC
GCCCTTTGGGAGGAGGTGAAGGCCACCAGCCTGCAGGAAATCGACGGGGACAGGCTCGCCGACTTGCCCCAATT
TTCGATGGGCCATACCCAATAGGCAGATCAATGATGGGATGGGTGGAGATGGAGATGATATGGAAATATTCATGG
AGGAGATGAGAGAAATCAGAAGAAAACCTTAGGGAGCTGCAGTTGAGGAATTGTCTGCGTATCCTTATGGGGGAGC
TCTCTAATCACCATGACCATCATGATGAATTTTGCCCTTATGCCTTGACTCCTGCCATTTATCATGAGATTAATAC
TGTGATTCCCGCTGTTTTCTTTTTCCTTGCAATTTTCCTAATATGCCTTTACTGATCCGTTTGCTGTGAACCCCTAT
GTTATTTCCATGTGTCAAGTGGGTCTTGTGTTGCCAGCTTCTATTTGAAGATTGCCTTTGCACTCAGTGTAAAGTT
TCGTGTCAGCAGTAGTTTACCCCATTTGCATGGAAAAATTTAAAGCTAATAAAGCAATTTAAAAAGC

1308/2682
FIGURE 1178

MANIHOENEEME QPMONGEEDRPLGGEGHQPAGNRRGQARRLAPNFRWAIPNRQINDGMGGDGDDEIFMEEMR
EIRRKLRELQLRNCLRILMGELSNHHDHDEFCLMP

1309/2682
FIGURE 1179

GACATGGAGCTGTTCCCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGGC
GAGTGCCCGGGGATAGAACCCGIGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGTGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGGTGGGAAGGGGGCTTCTGGGCCTGCTTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1310/2682
FIGURE 1180

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLVRCPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKAEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPVVMTSMGQATWSDPHKAKTMLNRIFLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

1311/2682
FIGURE 1181

CGGCGACTGACCGTGGTCGTGGGCGGACGGCGGCTTGCAGCGTGGAGGAGCTGGGGTCGCTGTGGGTTCGCGAAGC
AGAGCCCCGGGACGTGCGCGCTTGGTGCACGATCCTGAAGGGGAGCTCCGAGGGGCCGGGTCGCCAGGGCTGCTG
CGGCCATTCCCGAGCCCCGCGCGGGGCCGCGAGATACTGGTTTAGGCCGTCCCAGGGCTCCGGGCGCACCCGG
TGGCCGCTGCTGCAGCGGAGGGAGCGCGCGGGGCTCGGAGACAGCGTTTCTCCCGGAAGTCTTCCTCG
GGCAGCAGGTGGGAAGTGGGAGCCGGAGCGGCAGCTGGCAGCGTTCTCTCCGAGGTCCGGCACCATGCGCCCTGC
AGCCCTGCGCGGGGCCCTGCTGGGCTGCCTCTGCCTGGCGTTGCTTTGCCTGGGCGGTGCGGACAAGCGCCTGCG
TGACAACCATGAGTGGAAAAAACTAATTATGGTTCAGCACTGGCCTGAGACAGTATGCGAGAAAATTCAAAACGA
CTGTAGAGACCCTCCGGATTACTGGACAATACATGGACTATGGCCCCGATAAAAGTGAAGGATGTAATAGATCGTG
GCCCTTCAATTTAGAAGAGATTAAGGATCTTTTGCCAGAAATGAGGGCATACTGGCCTGACGTAATTCACTCGTT
TCCCAATCGCAGCCGCTTCTGGAAGCATGAGTGGGAAAAGCATGGGACCTGCGCCGCCAGGTGGATGCGCTCAA
CTCCCAGAAGAAGTACTTTGGCAGAAGCCTGGAACCTCTACAGGGAGCTGGACCTCAACAGTGTGCTTCTAAAT
GGGGATAAAACCATCCATCAATTACTACCAAGTTGCAGATTTTAAAGATGCCCTTGCCAGAGTATATGGAGTGAT
ACCCAAAATCCAGTGCCTTCCACCAAGCCAGGATGAGGAAGTACAGACAATTGGTCAGATAGAACTGTGCCTCAC
TAAGCAAGACCAGCAGCTGCAAACTGCACCGAGCCGGGGGAGCAGCCGTCCCCAAGCAGGAAGTCTGGCTGGC
AAATGGGGCCCGGAGAGCCGGGTCTGAGAGTCTGTGAAGATGGCCAGTCTTCTATCCCCACCTAAAAAGAC
CAAGCATTGATGCCCAAGTTTGGAAATATTCTGTTTTAAAAAGCAAGAGAAATTCACAACTGCAG

1312/2682
FIGURE 1182

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPDYWTIHGLWPKSEGC
NRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFEWKHEWEKHGTCAAQVDALNSQKKYFGRSLELYRELDLNSV
LLKLGIKPSINYYQVADFKDALARVYGVIPKIQCLPPSQDEEVQTIGQIELCLTKDQQLQNCTEPGEQSPKQE
VWLANGAAESRGLRVCEDGPVFYPPPKTKH

1313/2682
FIGURE 1183

GAATTCGAGCTTTTTATTCTAAGAGGAGAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTC
ATCCCTTGCTCTCGCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCCTCTAAAAGCAGTTTAGAGTGGTAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTAAGAGGAGAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCATGAATTTGCTAAACTTAAAAGCAAGC
TGGTTCTCTGGGATATAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTAGTCTATACATCAGATTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTTCAAAAACCTTTGACAGATGAAGTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTCTGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTATTCCATCTCTA
TAGCTTTTTTAACAACATTGGAAGGATCCTTCCTGAGCGTTTCTTGGCAGTTTTAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATTAAGCACCTAGTTTTCTGAAAAGTGAATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAATTTAATGTTTGAAGTCTGTTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTGTATTGCACCTAAATTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTACAATGAATATCATGAAGTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

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FIGURE 1184

MKFLLDI L L L L L P L L I V C S L E S F V K L F I P K R R K S V T G E I V L I T G A G H G I G R L T A Y E F A K L K S K L V L W D I N K H G L E E
T A A K C K G L G A K V H T F V V D C S N R E D I Y S S A K K V K A E I G D V S I L V N N A G V V Y T S D L F A T Q D P Q I E K T F E V N V L A H F W
T T K A F L P A M T K N N H G H I V T V A S A A G H V S V P F L L A Y C S S K F A A V G F H K T L T D E L A A L Q I T G V K T T C L C P N F V N T G F
I K N P S T S L G P T L E P E E V V N R L M H G I L T E Q K M I F I P S S I A F L T T L E R I L P E R F L A V L K R K I S V K F D A V I G Y K M K A Q

[illegible]

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FIGURE 1186

MLESSGCKALKEGVLEKRS DGLQLWKKKCCILTEG LLLIPPKQLQHQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKE LHFSNMKTVD CVERKGKYMFTV VMAEGKEIDFRCPDQGWNAEITLQMVQYKNRQAILAV
KSTRQKQQLVQQQPPSQPQPQLQPQPQPQPQPQPQSQPQPQPQPQPQLHPYPHPHPHSHPHSHPH
PHPHPHPHQIPHHPQPHSQPHGHRLLRSTSNSA

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FIGURE 1187

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTTATGCGCCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACCTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAAGACCAAGAGGTCGGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACTCTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATCCCTTATTGCATTTTCCTTATGTATAATTTCC
AGATGGTGATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAATGGCAGGAACAAGGACT
GCATAGAGAAAAA

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FIGURE 1188

MAGFLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQGRTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNGGVVTTAFYDPRSLDIVCKPVPPFLRGQIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPQIFFGLAPGWVVMADKKILKPTDENLLKYYTS

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FIGURE 1189

GGTATCGATAAGCTTGATATCGAATTCGGCACGAGGCCGGGCGCGGGGCTGCTGCGGGGCGATCGGGCCGGGC
CGCTGCCGCGCCATGGACTCCCGTGTCCAGCCTGAGTTCCAGCCTCACTGAGTGGCCACCCCCAAAGTGCTGCCA
GCCGAGGAAGCCCCAGCACTGACC**ATGT**CTATTATGGACCACAGCCCCACCACGGGCGTGGTCACAGTCATTGT
CATCCTCATTTGCCATCGCGGCCCTGGGGGCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAG
CCAGTCAGAGGACGAGGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCCCTTCTGCTGGTGCACTATTCGGC
CAAGGGACCGTGCGTGGAGAGAAAGGCCAAGCTGATGACTCCCAACGGCCCGGAAGTCCACGGCT**AG**AGCCAGGAT
GCAAGGCTCCTGGTCTGTTTGCAGCCGGCCAAGAGGCGCTGGGAGGGGCAAAACCATAACGGATGCGCTGCTGTC
TGAGAGGAAGGGCTGACACTTGCTGGCATGGCCTCTGCGGGCTTCGTCATCGCATGCACTGATGCCCGGGGACCT
GGCTGTCTGGGCTTCCCTCGGCCCTCCAGGTGAGGCTGCCATTGCAGGCACCTGGGCAGGCTGACCTTGCTGG
GGCTCATGGCCCTGTAGCGCTTTTGTACTTGAATGTCTAGCTGAGCCTGTTTTTGAITGGAGCTACTACTGTAAT
GCGTGAACTAACAAACCTGTGAACTGTAAATAGGCCCTTGAAGCACGTGCTTAAGCCCTTTTGCTGATTTTTAA
AAATATCATCTAGCGCACACGGGACTGGTATTCTGGCTGTACTAATGACAAGCTGAGTCAAGACCCTGGAGGGTC
ATAGGCTTGTAAGGCCACGCCACACTCGGCAGGGTCTCTCATGTGTGTCCATCTGCGTGTATGTCAAGGAAG
TGAGATGCCAATTTGGGGTCTTGAGGCTGACCAGTTGGGGTGCTTGGGTGATCTCTGCTTCGTTAGTCATGGGTG
GAAGAAAAACCACACCYCYMRMRCCCTCCGTTCTTTCTGCATAGACTCACTTGTTAAATAGCAGTTCTGTTGAG
AGTGGAGTTACTGCAGGGAAGCTACCGGACCTGCCTGGGAGCCAGTGAAGGGCGAGTCAGGGCACGCGTCTCGGA
GGCTGCCAGCGTCTTTGTAGCAGAGCAGTTTCTTGCCGCTTGGGTCTTCAGCACGCCAAGCCCCCACCACCCCT
CCACCCCGAGTGAAGGCTTCGCTGAAATTGCTTTGGTCTCATAGAGCCTGTGGTGGCTACTTTTGGTCTGAAA
CCCCTTGGCCCAGGAAGAGAAAAGGTTGTATGTTTTGTGTTGGTGTTCCTATTTTCTGCACTGGAGGGGAGG
GGACTGTTGAGGTTCTGTCTTTTTCTTCTTTCTCTTCCCTCTTCACATCACTTGGCTTCTCTTCTCTCTGA
TGACCGTCCGCTATGGGGTCTGACTTCACTTCTCTCAGCGGTCTCCAGTCCCCTGACCAGCTCTAAAGGCA
CTTAGGACCCAGGGAACATTTCTCACGTGCACATTCCCCTAAGAGCCACCAGACTGCTTCCCTGCCAGCCTGTGCT
TGCGGCAGGGAGCCGGGGCAGGGCAGAGGTGACTTGAAAGTTCAAGGACTTGACTCTCCACAGGTGGTGAGCTGG
TGGCTCTCTGGTGAGCTAGTGTCTCCACAGMCWVTCTCCAAAGGCTCCCCATGTACATTTGAGTGAGCTCACTT
TGATTTTTAATCCCACCACAAGCACATACTAATTTTATTTATGATTCAAATGTGACTCGTGCCCTGCCATCCCTG
TAATAGATGGAAGGTGAGCCCGGCTTAACCACAGAGCACTGGCCCTTCATGGCTGAGCTCAGAGCTCTGGCCTC
CTGCTCAGACTAAAGGCACCTCCTCTGGCCTCACCCAAGCCTCTTCTAAAAACCATGTTGAATGAATCCAGGTC
TGGAACCCCGAGCGGGGAGAAAGTAGGGAGCTGTTGTTTTAAGCAGCATACCTAAATTTGGGGGTTTAAACATTA
AGTAGGAGCTTGGGGTGAAGAGGGACAGCCGGCTGGGGCCACCTGAGCAGAAGGTGGTAATGAAACACCTCAGCT
GGGCTCTTGGGAGACCTTAGGAAGCAGGAGAGGCAACACCTCTGGCTACTGATGGTGTGGCAAGTTTCAAGAGG
TGGTGGTGGGTAGGCGTGATGTCAGCAGAAGCCCTGCAGGCTGGGTGGGCAGGACACGTGGTGGGGGCCACTGA
AACCAGGCCTAGGAGGGAGAACAAGTTCCAAAGGTGCCGACTGGAAGAAGGGGGTAAAGTTTGCTTTGGTGAGT
GAGAAAAGGCTGGGGCGTGTGATCCATCCCTCACGTTTTCAGAACTTCCAGGCTTCTACCTCGACTCTCACCAC
AGCCAGCACATACCTAGGCTGTTTTTCTTCTCCACACCTGAGGGACGAGCAACAGCTAGGATCTGCATTT
TCAGGTTCCGAGCCTGACCCCTGGAAGTACCAGCGCTCGATTGTCAGCCTTGGCCTGGGGTTTTGACCTTGCCA
GTGAAGTTTTCGGTTTTGAAGTGATTAATGTCACTTCTCATCAGTTTCACTTCTGGAGGTTTTCTTATCTTACT
CCCTGGTGCCAGGGACGTACCTGGGAGTTTGAATCAGGCCCATTTGAGCGTGGCAGCCGTGTTGGGTGAAGGTCC
GGGGCTCGGTGAGGCACTGGGGGGGTTTTCGGGAGGAAAATGAAAATGCTTCTAGAATGAGTGAACACATCATA
GCTCTCACTGTTTTTTCAATAGCTACTTTTTTTAGCAGACACCAGAGCCACACTCAAATGGCTAAGTAGGTTATG
ACCTCTCTGGATTATTTTTGAATGCCCAACTGTTGCAATTCAGTTTTCTGAACTAATAAGAAATTAAGCATTCA
TCCTTCGTATCACTGCAGAAGCAACAGTGGGGGCACAGGGAGGGAAGTCTTGACACTGAGCCACTAAAATATGGA
CTAATTTTTTGGACAAATCTTCAAACGGACTGTGCTACTGTATTGTCTCAAAGCTACCAAGTTTGTGCAATAAG
TGGAAGGGATGTCATCCTTCTTCAATAAATGTGAATGACATTCAAGCTGATTTCTAGACCACTGAGAAAATCT
TTATTTACAATAAATTTCAATAAATTTGCATAAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MSIMDHSPTTGVVTVIVILIAIAALGALILGCWCYLRLQRISQSEDEESIVGDGETKEPFLVQYSAKGPCVERK
AKLMTPNGPEVHG

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FIGURE 1191

GGAGCTCTGGAGGCGGGGCTTCGAGCGTGGCTCGTGGGTTTTCCGTGAAGTCGCGGTGCAGCGGTGGGCGGC**ATG**
TCTGTGGCCGGTGGGGAGATTCTGTGGGGACACGGGGGAGAGGACACTGCTGCTCCCGGCCGGTTCAGCTTCAGC
CCGGAGCCCACGCTCGAGGACATCCGCCGCCTCCATGCTGAGTTTGCTGCGGAACGAGACTGGGAACAGTTCCAT
CAGCCTCGGAATCTCCTCCTGGCCTTGTTGGGGAAGTGGGGGAGCTGGCAGAACTCTTTCAGTGGAAAACCGAT
GGGGAACCTGGCCCCCAAGGCTGGTCCCCCAGGGAACGGGCAGCCCTTCAAGAGGAGCTTAGTGACGTCCTCATC
TACCTGGTGGCATTAGCAGCCCGCTGCCGTGTGGATCTGCCGCTAGCAGTGCTCTCCAAAATGGACATCAACCGG
CGACGCTACCCAGCCCATCTGGCCCGCAGCTCTTCCCGCAAGTATACAGAATTGCCCCATGGGGCCATCTCTGAA
GACCAGGCTGTGGGGCCTGCGGACATTCCCTGTGACTCCACAGGCCAGACCTCAACCT**TAGA**AAGATGGCCACAGG
ACTTGCAACTCAGGGTGGTGTCTGAAGAGCAGAGAGTGGCCTGGCCCTGGAGCCTTTTTCTAGTCTTTTCAGAAT
AGATCATGGGCCTGAGGCCTCCACTTCTTGAGGICTGAGGCCCAGCAGCCTCTAGAAGGTAGCCTCCTGGTGTTT
GTTCTCCAGTAAATGGTTTTGGGCGATAACTTCTAGATTATTCCTGGATGGCCAGGGAGGCTCTCTGTCTCAG
CAGGTGATGACGGGGGTACCAGGGGTGCCTCTGAGACCCATTCTCGTGTTCCTGTGTACCTTTTGCCTGCAG
GGCAGAGAGATCTGGTTTCTAGCAAATTCAGTAGGATGTGATGTAAGTTCCTTCCCCCTCTTAGAGATTGAAG
GCTGTAAGAGTCCAGATGGTGGAGCCAGGCTGTCTGGGTCAAATGCCATCTTTGACACTTGCAAGCTAAATGAC
ATTACTCAAATTAATCGTTCTGCACTTCAGCTTCCTTGTCTATCAAATAAAAAGAATAGTACCTGCCCAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1192

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGELAELEFQWKT
DGEPPGQGWSPRERAALQEELSDVLIYLVALAARCRVDLPLAVLSKMDINRRYPAPHLARSSSRKYTELPHGAIS
EDQAVGPADIPCDSTGQTST

GGCAGCAGGCAGAGGGCGGTTCTCTGGAGTTACAGCCGCGTTTGCGGGACGTGTCTGCGCGGCAGCTCTGCCCTGTG
TGACGCTTGTCCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCGGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCTCTCTGGGGCCTTCTGCCTTTGAAGTGCAGGTGGCGGGCGGGCGCACGGTCTCTGTACG
CCCTAGACTAGGGGCCGCCATCTCC**ATG**GCCACGGCCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGACATACT
GTGGCGCGTTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTGTTTCATCCTATACAGTGGCTGTCTGATTCTTTCAGTGACCTGTATAG
TTCTATGTAATCTTTTACTTCTGCTGCTGTCTAGTGGTAATAATAATAAAGTATTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCCAGACTAGCTCTGTATAGGAAGATCATTTCCTCAGCAACTCATGCA
CTCATTTATTTCATGCTGCAATGGGAATGGTGATGGCCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCTTCGACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGACTGGAGCATTATAGGGCTATAGCTATAGCCTCCTGTATTTTGTTAACAACATGAACATACT
TCCATTTCCCATCATACAGCAATACAAGTTCTTGGCTTTTAGGAGATCTCTGCTCTTAITAGTTAAACACAGTTG
TGTGGAATCACTGTTCTCGTTAGAAATTTCTGCATTTATATTATTTCTTGGCTATATTCCCAAAGCTTGGAT
TAGCACTGCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTCTCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCACCACCATTTCGAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTTAAATAGCAATCTTCCCCCATCATAAAGTATTTAGCCTTGCAGGACCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAGTTTTTCAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAG
GGAGTGTGTTGAATCTTTTAAATGGTATGACTCAGAAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGCTTTCATCTTACCCAGTGGAACCTAAGAAATTAATTTCTCCAGAAGAACTGCTTTTCAGACACCAAATC
TAGCCAGATGCCTCGGCCCTCAGTGCCACCATTAGTTAAACATCACTGTTTTCTTCAAATATCTACACCTGA
TGTTGTGAGCCCCATTTGGGACCCCATTTGGCTCTAGTGTAAATGAATCGGATGGCTGGAATTTTGATGTAAACAC
CTGCTATGGGTACCCGCAAAGTCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCTTCTCCATCTACCTCTATTAGTGTCTGAGGTGAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGGATTGAGAAATAACGTGAACAGATTAAGAAATTTCTTGTGAAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCTCATTACGGCTGTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTGCACTTAGTAGACGACTGATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATATCTTGTGTAGACCTGCAAGAGGCGAGTCGACAAGTACTTTAAGCTTCTCATGCTTCCAGTAAACCACCCG
GATTTCAGGAAGCCTTGTGGACACTTCATATAAAACATTAAAGATTTGCATTTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAAT**AGT**TAAAGTAATATAAACTGTGTTTATTACACTGCTGTATACAACACTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCCTTTGTCTGGTGGTTGCT
TTGAAAACATACTTTAATGGGAGAAATCATGGAAAGAAATTTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAA

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FIGURE 1194

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVLFPLICTTVFIIFSRIDLFHPIQWLSDSFSDLYSSYVIFYFL
LLSVVIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFPIIQQYKFLRFRRSLLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAATNGRVSSSYVPEPKLNSPEETAFTQPKSSQMPRPSPVPLVKTSLSFSSKLSTPDVVSFPGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRGPRLWTSASDQQMTEFSNPSPTSSISAEGKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMHIALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTTGEHLNAVQASAEHQRLQQFLEFKE

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FIGURE 1195

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCAGTATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCGAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCCTCCGGAACGGGGGCTGTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGTTATGCCGGAATCGTTCGAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCCTGCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGCC

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FIGURE 1196

MSPSGRLCLLTIVGLILPTRGQTLKDTTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPTPTWPADETPQPQTQT
QQLEGTDGPLVTDPEHKSTKAAHPTDDTTTLSESPSPSTDVQTDPTLKP SGFHEDDPFFYDEHTLRKRGLLVA
AVLFITGIIILTSGKCRQLSRLCRNRCR

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FIGURE 1197

TGGCGGCGGGCGGGCGGGTGTCCCGGCTGTGCCGTTGGTGTGGCCCGTCAGCCCGGTACACAGCGCCCGGG
CCGCGTCGAGCCAGTACAGCCAAGCCGCTGCGGGCCGGGTCCGGCGCGGGCGGGCGCGCAGACGGAGGGCGGGC
GCCGCGGCCAGGGCGGGCCCGTGGGACCGCGGGCCCCCGGCGCAGCGCTGCCCGGCTCCCGGCCCTGCCGGCCTCC
TCCCTTGGCGCCGCGGCC**ATGG**CGGCCAGCGCGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGAC
ATGACCGGCCTCCCGCGCAACCGAAAGTGCTTCGACTGCGACCAGCGCGGCCCCACCTACGTAAACATGACGGTC
GGCTCCTTCGTGTGTACCTCCTGCTCCGGCAGCCTGCGAGGATTAAATCCACCACACAGGGTGAATCTATCTCC
ATGACAACATTACACAAACAGGAAATTGAATTCTTACAAAAACATGGAAATGAAGTCTGTAAACAGATTGGCTA
GGATTATTTGATGATAGATCTTCAGCAATTCCAGACTTCAGGGATCCACAAAAAGTGAAGAGTTTCTACAAGAA
AAGTATGAAAAGAAAAGATGGTATGTCCCGCCAGAACAAGCCAAAGTCGTGGCATCAGTTCATGCATCTATTCA
GGGTCTCTGCCAGTAGCACAAAGCAGCACACCTGAGGTCAAACCACTGAAATCTCTTTTAGGGGATTCTGCACCA
ACACTGCACCTTAAATAAGGGCACACCTAGTCAGTCCCCAGTTGTAGGTCGTTCTCAAGGGCAGCAGCAGGAGAAG
AAGCAATTTGACCTTTTAAGTGATCTCGGCTCAGACATCTTTGCTGCTCCAGCTCCTCAGTCAACAGCTACAGCC
AATTTTGCTAACTTTGCACATTTCAACAGTCATGCAGCTCAGAATTCTGCAAATGCAGATTTTGCAAACCTTGAT
GCATTTGGACAGTCTAGTGGTTCGAGTAATTTGGAGGTTCCCCACAGCAAGTCACTCTCCTTTTCAGCCCCAA
ACTACAGGTGGAAGTGTGCATCAGTAAATGCTAATTTTGCTCATTTTGATAACTTCCCAAATCCTCCAGTGCT
GATTTTGGAACTTCAATACTTCCCAGAGTCATCAACAGCATCAGCTGTTAGTAAAGTTCAACGAACAAAGCT
GGTTTACAGACTGCAGACAAATATGCAGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGAT
CAGGGAAGTGGCTTTGGGACCACAGGTAAAGCTCCTGTTGGTTCTGTGGTTTCAGTTCCAGTCAGTCAAGTGCA
TCTTCAGACAAGTATGCAGCTCTGGCAGAACTAGACAGCGTTTTTCAGTTCTGCAGCCACCTCCAGTAATGCGTAT
ACTTCCACAAGTAATGCTAGCAGCAATGTTTTTGAACAGTGCCAGTGGTTGCTTCTGCACAGACACAGCCTGCT
TCATCAAGTGTGCTGCTCCATTTGGACGTACGCCTTCCACAAATCCATTGTTGCTGCTGCTGGTCTTCTGTG
GCATCTTCTACAAACCCATTTAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCCATGAGC
ATGCCCACGGGATTCGGCACTCCTGCTCCCTACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTCAGCAGCCTGCC
TTTCCAGCCCAAGCAGCTTTCCCTCAACAGACAGCTTTTTCTCAACAGCCCAATGGTGCAGGTTTTGCAGCATT
GGACAAACAAAGCCAGTAGTAACCCCTTTTGGTCAAGTTGCAGCTGCTGGAGTATCTAGTAATCCTTTTATGACT
GGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCTTAT**AGC**CTTATATAGACAATTTA
CTGGAACGAACCTTTTATGTGGTCACATTACATCTCTCCACCTCTTGCACTGTTGTCTTGTTCCTACTGATCTTAGC
TTTAAACACAAGAGAAGTCTTTAAAAAGCCTGCATTGTGTATTAAACACCAGGTAATATGTGCAAAACCGAGGGC
TCCAGTAACACCTTCTAACCTGTGAATTGGCAGAAAAGGGTAGCGGTATCATGTATATTAAAAATTGGCTAATATT
AAGTTATTGCAGATACCACATTCATTATGCTGCGAGTACTGTACATATTTTCTTAGAAATTAGCTATTTGTGCAT
ATCAGTATTTGTAACCTTTAACACATTGTTATGTGAGAAATGTTACTGGGAAATAGATCAGCCACTTTTAAGGTG
CTGTATATATCTTGGAAATGAATGACCTAAAATCATTTTAACCATTGCTACTGGAAAGTAACAGAGTCAAAATTG
GAAGGTTTTATTCACTTCTGAATTTTCTTTCTAAAGAGCTCTTCTATTTATACATGCCTAAATCTTTTAAAA
TGTAGAGGGATACCTGTCTGCATAATAAGCTGATCATGTTTTGCTACAGTTTGCAGGTGAAAAAAAATAAATAT
TATAAAATAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 1198

MAASAKRKQEEKHLKMLRDMTGLPRNRKCFDCDQRGPTYVNMTVGSFVCTSCSGSLRGLNPPHRVKSISMTTFTQ
QEIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVHASISGSSASS
TSSTPEVKPLKSLLGDSAPTLHLNKGTPSQSPVVGRSQCQQQEKQFDLLSDLGSDIFAAPAPQSTATANFANFA
HFNSHAAQNSANADFANFADFQSSGSSNFGGFPTASHSPFPQTGGSAASVNANFAHFDNFPKSSSADFGTFN
TSQSHQTASAVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQSGFGTTGKAPVGSVVSVPSQSSASSDKYA
ALAE LDSVFSSAATSSNAYTSTSNASSNVFGTVPVVASAQTPASSSVPAFPGRTPSTNPFVAAAGPSVASSTNP
FQTNARGATAATFGTASMSMPTGFGTPAPYSLPTSFSGSFQQPAFPAQAAFPQQTAFSQQPNGAGFAAFGQTKPV
VTPFGQVAAAGVSSNPFMTGAPTGFPTGSSSTNPFL

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FIGURE 1199

TGTGAGGTTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGICTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCAGCGCGGAGT
CGGGCGGGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCATCGGAGGCTCCAGTGGCCTTGACCT
CCCCGCTCGTGTAGGCCTGCGCGGCGATCTGTCAGTTTCGTCGGGGCGGGGCGCGGGCCTGGCTTCGGCCTACCG
GCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGG
GTCTCCCGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCCAGTGCAGGCCTGGGTGCG
AGTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCA
GGCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAATTCAAGAGAATTAGCTATGCCAAGACCAAGACGA
GAGCCGAGGTGCGGGGCGGTGGCGGAAAGCCTTTGGCCGCAGAAAGGCACTGGGCGGGCCCGCATGGCAGCATC
CGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCA
TGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACT
CCCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTAC
TCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACT
TGATCCCGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCTGACGCTGCCCACCGTCG
CCTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCG
ACTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTC
TTCTGAGCCAGGCCGAGCCCTGGACGACTTGGGAGCCTCAGGCCCACGCCACCCCTTCGAGGAAGGTGTCACCT
GGCCCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGG
AGAGCCCAGACGGGGCTTCTTGCATCCATTCCCTCTTTTTGTTTTTTAAATAAATTGTATTTTGG

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FIGURE 1200

MLQFVRAGARAWLRPTGSQGLSSLAEEAARATENPEQVASEGLPEPVLRKVLPVPTHRRPVQAWVESLRGFEQE
RVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEVGGGKPLAAERHWAGPAWQHPLSALARRR
CCPWPPGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYRRWGDSVLLVDLTTEE
MPQSIVEATSRLKTFNLIPAVGLNVHSMMLKHQTLVLTLPVAFLEDKLLWQDSRYRPLYPFSLPYSDFFRPLPHA
TQGPAATPYHC

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FIGURE 1201

TTTTTTTTTTTTTTGGAGTTATACCTTTGGTTCTGTTTTTACCCTTTATTTGGAATACAGTGCAACATTACAGT
TTTGGATCATTAAATGAATGGACTTGGTGATATAGTACTAACAAGCACGACCTGAATTCTGGGAGTAAGTGGTTT
TCTAGTTTCATGGGGGAGGAAAACAGATACGTGCAAGATCTCCAGAGGAGAACAGAACCATGGTACTCAGTGAGTC
ACCAAAGGGCTTTGGCTTCAACTCACTAATGGCTGGAACAAGTGCCAGTCTTGGTCAGCCATCCAGGATTTTCAT
CACAGCAAATCAAAATCTCCAATTTTCAAATAATTGTAGGTAGAAGAGAGAGAATAACTCCAACTGTCTTAT
AAAAGGATCTAGATGACTACTGAAGTGTCTCCATTTCATGAGTTGGCAAAATCTTCAGAGTGACTGTTGGAGCAA
GGAGCCTTTCATGTGCTCCAGTTATTATATAGTGCATAGAGGCTGGTAAGTGTAGTCTGTGACACCACCTCG
TGCTATCCCTCGAAGACCACCTTTGGACTCTGGATGGGTCTCCAAATATTAACCTTGAAGATTAGTGACGGCCA
GGCATGGTGGCTCACACATGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCTTGAGCTCAGGAGTTTGAGAACA
ACCTAGGCAACACGGCAAAACCTGTCTCTGCAAAAAATAGAAAAATTAGCTTAGTGGGTGGCATGCGCCTGTG
GTCCCAGCTATTTGGGAGGCTGAGGTAGGAGGATCGCTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATT
ACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGAAAGAAAAAATGTGGTAAGATAGCTATAATCACACT
TTGAGTTAGATGCTGGTGACCACCCCCACTTCATGCACTGACGCATCAATCTCCACAATTAAAAAACAGTGAG
TGACACCTAGCATCATGCTAGTTGAAAAGAACTCAAGAATTACAGATATTGAACTACCTGCTTGATAACAAGTGA
ACAATTTTACATGTGGCAAAAGATTAGCAACAAGGATTTCACTTGCAATGGAGAAACAAAAATATTTCAATCGGT
TACTTAAAAATAGTCCCCAAGTGTAATAAAAGGAAGCTACAGATAAATTTCTCAAATAAAAAGGCCTAACTGC
TTATGGTTATAAAATGTTAGTCTTACAAACGTAATGTGGCAAGAGAAACCAAGCTACAAAACCTCCTCAGGAATG
GGGTGCCCAAAGCAGCTTTTAAAAAATGTGAAGTCTCAAGCAGCTCCATGAGTAGGGATCATAAACTCAGG
TAGCCATCTTTGTACCTAGAGTGATTTGTTCCAAGTCATGTGTTAGGGAGACAGAGGTAGAGCGGAGTTGTGGG
GGTGGCTAGAGGCCCTTTTAGCTCCGTGCCTGTCAATTCTGTGACATTCAGTGATGTTGCTGAGCTACAACATT
CAGAACTAACCATTCTGCAACGAGCGTCTACCAGATGGCTTCAGCTGATGGATTAAAGGGCCACTCCCCCTCC
AGGAATCTCTCCAGTCTGAAGACTTCTGATAGCTGACCTGCTTACGTTCTTCTTAGTTTTCCAATGCTAAGTGTC
ATAATTATCTCTCTCAACAGAACTGCAGACATTATCTATAAACAG

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FIGURE 1202

MVLSESPKGFNFSLMAGTSASLGQPSRIFITANQNLQFFKLIVGRRERITPNCLIKGR

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FIGURE 1203

GCAGAGGTGCGGCCGGGGAGGCGCGGGAGGCTGGAGCTGGAGGCGCGGCCGGGTGAGCTGAGAACCATGTGTG
CTCAGTATTGCATCTCCTTTTGCTGATGTTGAAAAAGCTCATATCAACATTTCGAGATTCTATCCACCTCACACCAG
TGCTAACAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTCTTCAAATGTGAACCTCTCCAGAAAACAG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTGAGAAGCTTGGTTCTGATGCTTTAGAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCTTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAACTTGCAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTGGTGG
ATGCACTGGTGGTACCTGTAGGTGGAGGAGGAATGCTTGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCCCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTTCAAAGTGTTCCTC
CAGAAGTAAAGAACATTTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTTTAAATTTACAGAAAAGGAAATGGTGGGAATTCAGTGTC
TTTAGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTCATTAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGAAAAAATTTTATACTTAAGTACATTTTGTCAA
GGCTAAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAATAAATTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCAGGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTACGCCAGGGTACTGGTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAGACTCGTTTATACAGGTTTCATCAGTACTGTGCTTGAGATTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAACAAAGTCGGTCAAATTTAAAGTAGAAAAATTTAAAGCAATGA
CTTCCAACCCAACAGTCATTTAGCAAACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTCTTGATATGTCTCTCCGGCCCCACTTCGTTCTCAGTTCCTGTTTAAACCACAGCACATCCTCTTA
GAATCAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCCAACCTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTCATAACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACTCTCTTGATGACCATTCGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAAGGACAAAAGCAAAGAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTGATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCCACTTAACCTTGTCATAGGTTCTTGAAAACCTTGTAATTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTGAGGAC
TGGCTATACACTGTTTTCACGTAAAAGTTGGAGTTTTCATTGTTCTATTAAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTTGGCTCCCAAAATTTAAATAAACAAGAGAAAACGGGTGTTTCA
CT

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FIGURE 1204

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVA AVL SQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1205

CACGAGGGGGACCCGGGCCGCTGGGCGCCGGGATGGAGGGCGCCAAGGGGCGGGGAGCGGGCGTGCGTGTGTGT
GCGAGTGCGAATGCGAGGGAGGCCGGCCTTGAGTGAAACCGGAGCTACAAAGAAGGGGAGAGTCCGGGAGCGGGA
GGGCGCGAGGGAGGAGCGGCGGCTCCGGGGCAGCTCCGACGCCCTCCCGCGGGGAAGGAGCCCCCGCGGTGCCGC
CGAGGCCCCGACGCGGGGGCCGCCCTCGGCTCGCCGCCCGCGCCCGCGCCGCTGGGAATGATGAAGAAGAACA
ATTCCGCCAAGCGGGGACCTCAGGATGGAACCAGCAGCCTGCACCGCCCGAGAAGGTGGCTGGGTCGGGAAAT
TCTGCGGGAAAGGGATTTTCAGGGAGATTTGGAACAAACCGCTATGTGGTGCTGAAAGGGGACCAGCTCTACATCT
CTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTTGACCTGAGTGACTATGAGAAGTGTGAAGAGC
TCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCAAGTTTACTCTTGCCCACTCCAAACAGCCCGGTAACA
CGGCACCCAACCTGATCTTCTGGCAGTGAGTCCAGAAGAGAAGGAATCGTGGATCAATGCCCTCAACTCTGCCA
TCACCCGAGCCAAGAACCGTATCTTGGATGAGGTACCCGTTGAGGAGGACAGCTATCTTGCCCATCCCACTCGAG
ACAGGGGCAAAAAATCCAGCACTCCCGCCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCT
CGGATGGGATGCTGACCTTGGACTTGATCCAAGAGGAAGACCTTCCCTGAGGAACCAACCTCTTGTGCTGAGA
GCTTTGCGGTTGACCTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGCGGAGAGCGGACTCAGACCGCATCC
AGCCCTCCGCAGACCGGGCAAGCAGTCTCTCCGACCTTGGGAAAAAACAGACAAAGGGGCCACCTACACCCCCC
AGGCACCCAAGAAGTTGACGCCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCTATCTCAGCGGGATG
CTGCCTCTGCCCCGACCCCTCCAGCTGCGGGCTGAGGAACCCCCAACCCCTGCCCTCCCCAACCCGGGGCAGCTGT
CCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTCAGGGACTGGGAG
ATGGGAAGCGAAAGGCCAAGGACCCCCCTCGGTCTCCGCCGATTCTGAGTCAGAGCAGCTGCTGCTGGAGACGG
AACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAAGAGGGTGCTGCAGGAGGTCAGGGAGCTGAGAG
ACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCACCTCAGACAGACCACCCCGCACAGTCAGTACCGGA
AGAGCCTGATGTCAGGGGAGGGTGGGGTCTGGAACCTTGTGGGTTGGACAGACTCTTATCTCCGTGTTGCTGGAT
AAAGCTTTTTTATTTACCTCAATCAAAAAAGAAAAACAAAAATGAAAAAAAAAAAAA

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FIGURE 1206

MMKKNNsAKRGPQDGNQQPAPPEKVGWVRKFCGKGIFREIWKNRYVVLKGDQLYISEKEVKDEKNIQEVFDLSY
EKCEELRKSRSKKNHskFTLAHskQPGNTAPNLIFLAVSPEEKESWINALNSAITRAKNRILDEVTVEEDSYL
AHPTRDRAKIQHSRRPPIRGHLMVASTSTSDGMLTLDLIQEEDPSPEEPTSCAESFRVDLDKSVAQLAGSRRRA
DSDRIQPSADRASSLSRPWEKTDKGATYTPQAPKKLTPTEKGRCASLEEILSQORDAASARTLQLRAEEPPTPALP
NPGQLSRIQDLVARKLEETQELLAEVQGLGDGKRKAKDPPRSPPDSESEQLLETERLLGEASSNWSQAKRVLQE
VRELRLYRQMDLQTPDshLRQTTPhSQYRKSLM

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FIGURE 1207

CCCCGCTGCATACGGTTGCCGGC**ATGG**CACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCGCCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCAATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGTCTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAATATTTACAGATTGTCAGTCTGAAGGATTCCTGTAA
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAATGAAGGGAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCTTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAATCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAGACTCTGCTCCCCCGTCTCTGTGGCCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGAT**TAGT**ATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTGCTTTGCTGAAAACATAGGTTAACCCTATATAGGTGTGGGAAATTTTGT
CACTGCATAATATTACAAATATTTTGTAGTACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGAACCTGGGTTGTTTTGATGGAGAAAAACCTTATTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTGCGAATCCCGTGCTTAAATACGCTCTTAAATTATTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAACTAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1208

MAHYNEKKITVVPsAKDFIDLTLsKTQRKTPTVIHKHYQIHRIRHFYMRKVKFTQQNYHDRLSQILTDFFPKLDDI
HPFYADLMNilyDKDHYKLALGQINIakNLVDNVakDYVRLMKYGDsLYRCKQLKRAALGRMCTVIKRQKQSLEY
LEQVRQHLSRLPTIDPNTRTLllCGYPNVGKSSfINKVTRADVDVQPYaFTTKSLFVGhMDYKYLRWQVVDTPGI
LDHPLEDRNTIEMQAITALaHLRAAVLYVMDLSEQCGHGLREQLELFQNIrPLfINKPLIVVANKCDVKRIAELS
EDDQKIFTDLQSEGFPVIETsTLTEEGVIKVKTEACDRLLaHRVETKMKGnKVNEVLNRLHLAIPTRRDDKERPP
FIPEGVVARrKRmetEESrKKRERDLEEMGDDYILDlQKYWDLmNLSEKHDKIPEIWEgHNIADYIDPAIMKKL
EELEKEEEELRTAAGEYDSVSESEDEEMLEIRQLAKQIREKKKLKILESKEKNTQGPRMPRTAKKVQRTVLEKEMR
SLGVDMDDKDDAHYAVQARRSRsITRKRKREDSAPPSSVARSGSCSRTPRDVSGLRDVKMVKKAKTMKNAQKKMN
RLGKKGEADRHVfDMKPKHLLSGKRKAGKKDRR

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FIGURE 1209

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCATCAGATTTGGAT
ATGTCCCTTCATATTTGATTGGATTTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAACTGGIATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTGTAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAACTTGATTCACTAATGACAGATGAAACCATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCCGACCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTAACAC
AAACTCACATTGGTTCCAGGTCTCAACGTTTACGGCTTACTCAGAGATTTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGTGTTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTTGAATGAGA
ATTGAAAACAGATTCAAGTAAGTTTGTAGTATCACAATGTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCAGGCGCCATTTGTAAAGAGCAACTTCCAGCAGTACATTGAAGCACTTTTAA
ACAACATGAAACTATAAACCATATTTAAAGCTCATCATGTAAATTTTTTATGTACTTTCTGGAAGTACTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAA
AAAAA

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FIGURE 1210

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

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FIGURE 1211

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTCGTTGTCGCCCCCTCCTCGTCGGGAAGAATCGTTTGGT
CTCCTGCCGTGCCCGGCCGGTGTCTGTCTGCTGCTGCTGCCCGCGCGGGTTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCCAGTCAGAAGTTCCAGCCTGCCAC
TGTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCTCATCCGTAAGTGTGAAGTGAAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTTCTCATCGTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGCTACCTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAATGTGAGTTCTATCCTTGGATTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGCGCGGGCACTGCTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTGTAATTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAAGTGCAGTGCATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGGAGGCGCAAGTTGGTGATCCTAATCTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGACCTTCATGTGGCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTCGTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACAGTTGAATGACAATGAATATACCAAGTTTATTCTCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACCTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAACTGGCATGCATCACCACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTGCGCACGCTGTGGGCAACAACGAGTTTGGGACTGTTG
ATCATGAGCGCCTCTCTAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAACCAAGAAAGTGAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAAACATTTTCAGGTGGCATTCTAA
GCATTTACCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACTTGAGGCAAGCACTTCTTTATCACAGGTGCTTGAAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTCTAGTACACAGTCTATGCATTATTATATACATTTATTTAGCCTAAAGTG
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCGATTTCCTAATGTAATTGAAACATTTCTA
GTTTGCCACACACTTGAGACCGTAAGGGTTTTTAGTTTGTCTACTCTTCTATTGAAGTTAAAAA

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FIGURE 1212

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSIDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNSLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNFNLNVLV
LRVAFSGATACVAHV DGVDLHVANTGDSRAMLGVEEDGSWSAVTSLNDHNAQNERELERLKEHPKSEAKSVVK
QDRLLGLLMPFRAFGDVKFWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQOPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLRHAVGN
NEFGTVDHERLSKMLSPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

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FIGURE 1213

CCATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGGGCCA
CGGAACAGCTCCAGATCGTTCTTCGGGGCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGGCCG
ACCCCCAGATCCGCCAGTTTGCGGCCGTGCTGACCCGCAGACGACTGAACACCCGCTGGCGACGGCTGGCGGGCGG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCCAGCTCTCAGCCACCATTTCGAAAGGAAGGCTTGGAGGCCCTGGCCACAGCTTTTGAGCTGCTTCAGC
ACAGTACCCACAGCCCCACAGCCCAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCCTTCCAACCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCCTGTGAGGCC
TTGAGGCTTTGGATGAAGTGTGGAGTCAGAGGTGCCGGTCATACCCCCCTACCTCTCTGAAGTCTTCACATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG
TCAAAGTCAAGAGCAAGGCCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCCTTTCCCCATTGTGG
CTGCTGAGCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTGAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCACTGCTGCAGATTGTGT
GCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGC
CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCTGTAAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCAGCAGCAGTGGGGGAGCCCATGAGGCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGGGGCGCTGCAGCTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAACAGATCACCACGCTCATGCTGCTGTCAGTGCCTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCTCTGTTTACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCTTCCATACATGGAAGTGTCTTTG
AAGAAGTATTTAAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTCACTTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCTCGGAACCCAACACTGCTGCTTTGCAGGCTGCCCTGGCCC
GAGTCGTGCCATCCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCTCACACTGAAGCCCCCTGGGCGCCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCAGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCCATTCTTTGCCGGTTTCTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCCTTTGAGTGGGGACCTTGGCAGAGACTATTAGGGCCTGGGTGCTGCCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCAAGAGGCAGACCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCTGCCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTCCCTCCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCGCCTGTTGATGGCCAGTCCCACCA
GGAACACAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCTGTACCAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCCACAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGT
TCCTGGCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA

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FIGURE 1214

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRRLNTRWRRLAEE
QRESLKSILITLALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLQLLQHSTHSPHSPEREMGLLLLSVVVTSRP
EAFQPHHRELLRLINETLGEVGSPLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVSKALLKNRLLPPLLHTLFPIVA
AEPPLGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLPPLLQIVCKGLEDP SQVVRNAALFALGQFSENLOPHISSYSREVMPLLLAYLKSVP LG
HTHHLAKACYALENFVENLGPKVQPYLPMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFPAIMEH
LREFLLTGREDLQPVQIQSLETGLVLARAVGEPMRPLAECCQLGLGLCDQVDDADLRCTYSLFAALSGLMGE
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLFDDSDGEEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVPSYMQAVNRERERQVMAVLEALTGVLRSCGTLTLKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEEDDDQA
EYDAMLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLVCCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFPLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLFSLYQSSPDQVIDVAPELLRICSLILADNKIPDPTKAALLLLLT
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 1215

GCTCCCTGGGGAACCCAGCAGGCGGCGAAGATCGCGGAGAACAGCGGTGCGGCCGGCAAGAGCAGCGGGAGCGGC
GCGGGGAAGGGGGCGGTGTCCGCAGAGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTG
GCATCCAAAGCAGCTGAGTTGGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGAT
GAAACTCGTAAGTGCTACCGCATGGTTGGAGGAGTGCTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCCGCTTG
GAGAACAACAAGGAGCAGATACAGAAGATCATTGAGACACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTA
AATGAATTCCGGGAAAAGCACAACATTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAACTCAGAA
GGGGCTGGGGCTAAGGCCAGCTCAGCTGGAGTGTTGGTCTCCTAGGGACCAAGGCCTTGCATTTTTTTCTACCC
TGACTCCCACTTCTAATTTCTCTTTATTGTTATTATTATTATTTCTCTGCTATTGTAATATTTTTTTGTTAATT
AAATGTTTGGTCAGAAATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1216

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRGLASKAAELEMELNEHSLVIDTLKEVDETRKCYRMVG
GVLVERTVKEVLPALENNKEQIQKIIETLTQQLQAKGKELNEFREKHNI RLMGEDEKPAAKENSEGAGAKASSAG
VLVS

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FIGURE 1217

GGCTTCGGTAGCGGGAGGGCGAAAGATGGCGGCGGCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCT
GAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTT
TCGAAATGGGAGAAGAAGAATAAAATTGTTTATCTCCACAAGTGCCTGGGAGAACCTCGGAGACCAGCAGAAAT
CTACCACTGTGGAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTC
TATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTCTTAGA
AGCACAAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCAGG
ACGAGGCCAGTGCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCA
TTATTTTGTGAAGTTGGTGGAAAGGGCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGA
GTATATTCAGCAGCTTCGCAGCCGGACCATCGTTCACACTCTATGATGAGGAGATTGAGACTCCACAGTGTATAT
ATTTTGCCATTTATTTTCTAAAAATAAACAAAAATTGAAGGCAAAAAAAAAAAAAAAAAA

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FIGURE 1218

MAAAVLGQLGALWIHNLRSRGLALGVLPQSYIHTSASLDISRKWEKKNKIVYPPQLPGEPRRPAEIIYHCRRQIK
YSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRI
RYHGRGRFGIMEKVYCHYFVKLVEGPPPPPEPPKTAVAHAKKEYIQQLRSRTIVHTL

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FIGURE 1219

GATCCGCCACCATGGCTGAAGGAGAGAATGAAGTGAGATGGGATGGACTCTGCAGCAGAGATTCAACTACTAGGG
AGACAGCATTGGAAAACATTAGGCAAACCATTTTGAGGAAAACCGAGTATCTTCGTTCCGGTGAAAGAAACACCTC
ATCGTCCATCAGACGGGCTTTCAAATACCGAGTCTTCGGATGGGTTGAATAAGCTACTTGCTCATCTGCTTATGC
TTTCTAAGAGGTGTCCCTTCAAAGATGTGAGAGAGAAAAGTGAGTTTATTCTGAAGAGCATCCAGGAACCTGGCA
TTAGAATTCTCGACCACTAGGACAGGGACCAAGCAGATTTCATCCAGAAAAGGAGATCCTCCAAGTGGGGAGTG
AAGACGCACAGATGCATGCTTTATTTGCAGATTCTTTTGCTGCTTTGGGCCGTTTGATAACATTACGTTAGTGA
TGGTTTTCCACCCACAATATTTAGAAAGTTTCTTAAAACTCAGCACTATCTACTGCAATGGATGGGCCGTTAC
CCCTACATTATCGTCACTACATTGGAATAATGGCTGCGGCAAGACATCAGTGCTCCTACTAGTGAACCTGCATG
TAAATGATTTCCCTTCATGTTGGTGGGGACCCCAAGTGGCTCAATGGTTTAGAGAATGCTCCTCAAAAACCTACAGA
ATTTAGGAGAACCTTAACAAAGTGTTAGCCCATAGACCTTGGCTTATTACCAAAGAACACATTGAGGGACTTTTAA
AAGCTGAAGAGCACAGCTGGTCCCTTGGCGAATTGGTACATGCAGTAGTTTTACTCACACACTATCATTCTCTTG
CCTCATTACATTGGCTGTGAATCAGTCCAGAAATTCATTGTGATGGTGGCCACACATTGAGACCTCCTTCTG
TTAGCAACTACTGCATCTGTGACATTACAAATGGCAATCACAGTGTGGATGAGATGCCGGTCAACTCAGCAGAAA
ATGTTTCTGTAAGTGATTCTTTCTTTGAGGTTGAAGCCCTCATGGAAGATGAGGCAGTTACAGGAATGTCGAG
ATGAAGAAGAGGCAAGTCAGGAAGAGATGGCTTACGTTTTGAAATAGAAAAAGAGAGAGATGTTTGTCTTCT
CTTCAGATGATGAAGAAGTTACACCAGCAAGAGCTGTATCTCGTCATTTTGAGGATACTAGTTATGGCTATAAAG
ATTTCTCTAGACATGGGATGCATGTTCCAACTTTTCGTGTCCAGGACTATTGCTGGGAAGATCATGGTTATTCTT
TGGTAAATCGCCTTTATCCAGATGTGGGACAGTTGATTGATGAAAAATTTACATTGCTTACAATCTTACTTATA
ATACAATGGCAATGCACAAAGATGTTGATACCTCAATGCTTAGACGGGCAATTTGGAACCTATATTCAGTGCATGT
TTGGAATAAGATATGATGATTATGACTATGGTGAATTAACCAGCTATTGGATCGTAGCTTTAAAGTTTATATCA
AACTGTTGTTTGCACCTCTGAAAAGGTTACCAAAAGAATGTATGATAGCTTCTGGAGGCAGTTCAAGCACTCTG
AGAAGGTTTATGTTAATCTGCTTCTTATAGAAGCTAGGATGCAAGCAGAAGCTCCTTTATGCTCTGAGAGCCATTA
CCCGCTATATGACCTGATGCTTTTCTTCAATTAAGATGATTCTGGAATGATCAGCAGATATAGTCTACAAGGGG
GAAGGTACTAAGCCCCAGGACCAATGGTAGACAAAATAATTCAGAAATCCATTGTGCCATGATTCCCTTTAGTTTC
TGCTATTTTTCTGTGGAAGAACCACTGCTGGCACAAGCAGTGACTGTTTGGCAGCTTCAAGTTTAGAGCTGTGAAG
ACAGGCTGCCATTCACAGTATTTTGCTTTTTGACAGTACAAGATGCTGTGTAAGTGTTTTAAATACAGCAAATAGT
AACTCTCAAATCCTGTTGCTTTTATGTTAAATAAGATAACAAGAATTGGAGCATGCAAAGAATGGGACTTGGAT
AATGACTTAAGCTTTATATGTAAAGAATTTTAGAAGATCTTGGTGCTGCTATTCTGCTGGAGGAATGAATAGAT
GGCTGTTTCAGTTAAGCTATTAGTAATAAAGTGAACATTGCTACTATCTGAGCCTACATACATAACTTGTGTGA
TTTCAAATTAACCTTGCAATTATGTGTTAATTTCTTGCATCTAAAAAAGCATAGAATTCCTACTCACACAGCTCA
GCAACAACCAATTTTGATGGTAACAGTTAATTTCTTTCATTAGTTTTTTAAATTCAGGGTCTGGATATTAAATTA
AAATGGCATTCTTAAAGATTTTCTTCAAAAAGCAATCCTAAATGAAAGTGTGTAATTAAGAAGCTGGCGATC
TTTTGATATGCTGTTTCACAGGATCCTGACACTGGAGGGCAGCTGTCTTGTGCATTACTTGTGTTCCAGCACCA
AAGTTGTGGGACATGTTGCTGTAGACTGCTGCGCAGTCTGGGTGCATTCACTCTCTGCCTCTGCCTGCCTCC
TGGTCCCCACTTTAAAGGCTGTGCAGCTCCTTAAATAATAAAGCTGGAAGATATTTTAGTCGGGTATCAAATT
TGATTTACAAAACGCTAACTTTGTTTGAATGCAAACAGGTTTGAAGATATGTATTAAGTACTTTGTATTCTGG
AAGCGTGAATTGCTTTTGAAGTCTGTCAGTATTACTGGTATTTTTAAATAAAGAAGAATTTTCTCCAAAAAAA
AAAAAAA

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FIGURE 1220

MAEGENEVRWDGLCSRSTTRETALENIRQTILRKTEYLRSVKETPHRPSDGLSNTESDGINKLLAHLMLSKR
CPFKDVREKSEFILKSIQELGIRIPRPLGQGSPSRFIPEKEILQVGSEDAQMHALFADSFAALGRLDNITLVMVFH
PQYLESFLKTQHYYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVGGDPKWLNGLENAPQKLQNLGE
LNKVLARHPWLITKEHIEGLLKAAEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNY
CICDITNGNHSVDEMPVNSAENVSVSDSFFEVEALMEKMRQLQECRDEEEASQEEMASRFEIEKRESMFVFSDD
EEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTYNMA
MHKDVDTSMRLRAIWNYIHCMFGIRYDDYDGEINQLLDRSFKVYIKTVVCTPEKVTKRMYSFWRQFKHSEKVH
VNLLLEARMQAELLYALRAITRYMT

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FIGURE 1221

ATAGTTGACCAGCTTCTGCAGGGGCTCCTCAGTGAGAGAATGGAGGTGAGGTCAGGGACTCCTGCCTTGCTCTG
CCATCACTTCCAGTGATGCCTATTCCTAAGATTGATCGTGTCTGTGCTGAAGATGTTTCCGGAACAACAGAAAG
AGGAATTTGTAAAGTGTCTGGGTTTCGAGATCCTAGGATTGAGAAGGAGGACTTCTGGCATTCTTACATTGACTATG
AGATATGTATTCTACTAATAGCATGTGTTTTACAATGAAAACATCCTGTGTACGAAGAAGATATAGAGAATTGCG
TGTGGCTGAGGCAGAGACTCCAAAGTAATGCGTTGCTGGTACAACCTGCCAGAACTTCCATCTAAAAACCTGTTTT
TCAACATGAACAATCGCCAGCACGTGGATCAGCGTCGCCAGGGTCTGGAAGATTTCCTCAGAAAAGTCTACAGA
ATGCACITTTTGTCTTCAGATAGCAGCCTTACCTCTTCTTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGT
GTGTTTCTGGGCAGACTAAGTACTCTGTGGAAGAAGCAATTCACAAGTTTGCCTTAATGAATAGACGTTTCCCTG
AAGAAGATGAAGAAGGAAAAAAGAAAATGATATAGATTATGATTGAGAAAAGTTCATCCTCTGGGCTTGGACACA
GTAGTGATGACATCAGTTTACATGGATGTAAAGTAAATACAGCTCCGCAGGAATCCTGAAAAATAATTCTAATGT
TACTATCTTAGGAATAGCAAATTATGTCCAGTCATAGAGAAGAAAGCTTCATAATAATACATTCTTACCTAAAGC
TCACTGTCTATGATGTTAGGTATTTAAATTCTTAAAGATGTTGGGTTGTTTATTAGTGGTATTTTTATGTTGTCTT
ATTTTAGGTAAGCTTCTGTGTAAAGCTAAAAATCCTGTGAATACAATACTATCCTTTACAGGCAGACATTATTGG
TAAACAAGATCTTGCCCTCCAATGAAATGACTTACATGTTTTAAAAAACCGAGTTGGTTTTATTGAATTTAAAAA
GATAGGTAACTAAGTAGCATTTTAAATCAAGATAGAGCATTCTTCTGTATCAGTGGGGCAGTGTTACCATAAA
CACGGTGTATATGTTGTTAAACCCTATGAAGAGTAACAGTGTAGACCAGACTGCCTCTCTCAGATATGTGCTGA
TATTTTGTGGATACCTCCCTGCACTGGCAAAACACTATGCTTTTGGGTGTTAGACTGAAATATTTTAAAGATAT
TTAACCTTTCCAGTATTCTGTTTACGCTTAGATGGAAATGTATCTTATGAATAGAGACATATTAAATAATGTT
TACATCTTAGAAAAACATAGATAGTGTAGTAATATTACTTATAACTGTAATATATAGATTGAGAAATACATTT
TCATTATCCAAATCAGCTTCAACAAATGGTTTCTGGAGACAAATAATTGTTTTTCATTATCATTGTATAATCAG
GTTAATGATTTATTTTTGACTAAATGTGCAATTTCTTATCACTAGATAACTTTTCAGTATCAGTGGTGGTTACTT
ATTACTTAAATCAGAGGAAGGATTTTATAAAGATTAATAAATTTAATTTTACCAATAAATATTCCCATAAATTAG
AAAAGGATGTCGACTTGCTAATTTTCAAGAAATAATTATTCATTTTTTAAAAAGCCCCTTTTAAAGCATCTACTTGAA
GATTGGTATAATTTTCAAAAATGTCTTTTTTTTTTAGTGTCCCAAAGATATCTTAGATAAACTATTTTGAAGTTC
AGATTTTCAAGTGAAGCAACATTTTCTTGAGATAATTACCAAGTTTCATCCATGTTGAATGGTACAAAATATTTT
TGTGAACTAACAGGAAGATATTTTCAAGATAACTAGGATAACTTGTGCTTTGTTACCCAGCCTAATTGAAGAGT
GGCAGAGGCTACTACAAAAAGCAACCTTTTCAATTTTCACTAAGAGTTTAAAGCTATTGTATTATTTAAAAAGTCT
TTACAATGCTTGTTTCAAAGAACCAACAGAAAAAAAAGCTAAGAAAACCTGAGAACTAACATTAAAAAATTTAAAT
TTAGAATAAGAATGATTTCTTAATTTGTCCTTTTTTTTCTTTGGTCTAAAACATTATTAAATTTTTTGTAATATT
TTGATTTAATGTGCTTAGATCCTCATTATTTTAAATACAGGAAAAGAAAAGATTTAGTAATTTCTTACCATGCTA
ATATGTAAAGTTTCAATGCCATCCAGGCATTTAAGAGCGATCCTCATCCCTTCAGCAATATGTATTTGAGTTTACAC
TATTTCTGTTTTACAGCAGTTTTGAAAAACACATACTATGCCACCAATTGTCATATTATTTTTAGATGATGTAAC
ATAGCCATCAAAATTAATATTATGTAATGCCTAATACTTAGTATGTAATGTCACGAGATCATTTTTTACATTAAA
CGTGA

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FIGURE 1222

MFPEQQKEEFVSVWVRDPRIQKEDFWHSYIDYEICHTNSMCFTMKTSCVRRRYREFVWLRQLQSNALLVOLPE
LP SKNLFFNMNNRQHVDQRRQGLEDFLRKVLQNALLSDSSLHLFLQSHLNSEDIEACVSGQTKYSVEEAIHKFA
LMNRRFPEEDEEGKKENDIDYDSESSSSGLGHSSDDISSHGCKVNTAPQES

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FIGURE 1223A

[illegible]

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FIGURE 1223B

GGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTTGGCGCACGCCTGTAATCTCAGCTACTA
GGGACGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGTGGAGGTTGCGGTGAGCCAAGATTGCGCCACTGCACT
CCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCCTCAACAACAAAAAAGTTTCCCATACACTGGCCTGCC
CCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTTTCATGTTCAATAAGAAACCCAG
CCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTGCTGACATTGAGAATCTCAGAC
CTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTGCTATCTGCGCGCAGGATGGGGG
TGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCAGATGCGGCAGACATAACAACAC
CTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAAAACTTAGGATAACTTAGAA
AGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATGCAATGGACCTGATTCTAGTT
TATTCTAATTAAGAAGTGAGGCCGGTTTGACTTCGTTCCCTGAATACAATCTTGAGTAACTGGGAAAGTCTGAGT
GAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGGCATTATTTGATCTGAAATGT
TTGAGAAGACACGAATAAAG

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FIGURE 1224

MGAMGAAEPLHSVLWVKRRRCVSLPARALLRWWRSPPEGPSAPGADARSVLVSEIIAVEEKDDCEKHASSGRW
HKMENPFAFTVHRVKRVRHHRWKWARVTFWSADEQLCHLWLQTLRGLLESLSRPKHLVFINPFGGKGQKRIY
EKTIVAPLFTLASITTEIIITEHANQAKETLYEINTDSYDGIVCVGGDMFSEVLHGVIGRTQQSAGIDPNHPRAV
LVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTLLRYSVSL LGYGFYGD L IKDS
EKKRWMGLVRYDFSGLKTFLSHQYYEGTSLFLPAQHTVGSPRDNKPCRAGCFVCRQSKQQL EEEEEKKALYGLENA
EEVEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQEDQFDFTFV
EVYRVKKFHFTSKHVEDEDNDSKEQEKQKFGKICKDRPSCSASRSSWNCDGEVMHSPAIEVRVHCQLVRLFAR
GIEEES

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FIGURE 1225

CCGGCTGTCGGTCTCCGTGTCGCCGCCGCCGCCGGCATCGTGGAGCTGGGGCCCCCTTTTGCTGGGAGTTTGT
TAGTCGCCTAGGGTCAGCGGTGACATCCCAAAGGGCAGGCCCGGCAGCCGCCATGGTGGCCAAGGATTACCCCTT
CTACCTCACGGTCAAGAGAGCGAACTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAGGACGCTGAGGA
GCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCACGTCGCTAGCAAACCTCATCCCGCCCGTGAAGGCCAC
GCCATTAAAGCGCTTCAGTCAAACCCCTGCAGCGCTCCATTAGCTTCCGCAGTGAGAGCCGCCCTGACATCTCGC
CCCCGACCCTGGTCCAGAAATGCCGCCCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTT
CGATGTGTGCGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCCAAGG
AGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGGCCATATCATGACCCCATGTGAAACTCTCCATAAT
GACAGAACAAGAGTTGAATCAAATTTTTGGAACTGGACTCTCTAATTCCTCTACATGAAGAGCTCCTTAGTCA
GCTTCGAGATGTTAGGAAGCCTGATGGCTCGACTGAACATGTTGGTCCCATCCTCGTGGGCTGGCTCCCTTGCTT
CAGCTCCTATGATAGCTACTGCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAAGCAAGATCACCG
AGTCCAGGATTTCTACAGCGATGTTTAGAATCCCCCTTTAGCCGCAAACCTAGATCTCTGGAATTTCTCGATAT
TCCAAGAAGCCGCTGGTAAATACCCCTGCTTCTCCGAGAAATCTTGAGGCACACACCAAATGATAATCCAGA
TCAGCAGCACTTGGAAGAAGCTATAAATATCATTCAGGGAATTGTGGCAGAAATCAACACCAAGACTGGTGAATC
TGAATGCCGTATTATAAAGAGCGGCTTCTTTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCG
AGTCTTGTGTGTCATGGTGAAGTGAAGAACAATCGGGGCGTGAAACTGCATGTTTTCTGTTCAGAAGTGCT
TGTGATCACTCGAGCCGTCACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCCCGTGAAAGA
CCTCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGA
GAGAATTAATAAATCTTCTCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGA
CACTTTCAACAAACAGCAGTGGCTTAAGTGTATTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGCAAGC
TGGGGTGCTTGACTCCGAGGGATCGTTCCATAATCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAACT
TGAGCAGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTGAGCCTCGACTGTGAGCG
CATGGAACAGACAGACTCTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGTCTGACAGAAAGCATGTGCACTT
CGGGAAGCAGGCCTGCATCTTACCTGTACAGTATTTGCATTCCACAGATGGAACGTTTTGGAGAAGCACTTTTTT
ATACTTTTGTGAAAGTATACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAAGTCCAA
TCTGTCTGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTGTATTTCCCAAGTGTCTGGATGGATGGAGA
GGTACTCAAACAAGTTACTTTTCAAGTTGCTGCTGGATTTTAAAAAATAGAAAAAGAAATCTCAAACTACTGTT
TTACATAGATTGTTGAAGAGTCTTCTCTGTGCTTCTGTACCACCTTTCCAGCTCTTAGATGTGGTAGCTAA
AGGCACGGAATTTAGACGGCCTTGTAATAGGGCATGAGGAACCTCATCTGTGTATTGGGATGGTATTAGAGAGAG
AATCAGGAAAGACCAACTCATGAAGTGAACCTTGTTGATCTTACTCAACTAGAAAGCTTGAAAACATCCCTGGG
GATTCTGAAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACTTTGCAACTTCATCCAGTGCAAGTTTGATG
CAAGAATGTATTAGACATAAAATAGAGGCTGACCTTAAAGGGGCCAGGACAGAAGCGGCTGCCAGCTCTGAATC
TTTAACTGAAATGCACATGGCACCAGGAGGTGTCTCATAGTTGGTTGCTAGCCTAAACATCAGAATAGAACC
CAAAGGGCTTAGGAAGGCCTGCCAGGATAACAAGAAGGCCCTGTATTCAATTGTGTTTCATCTGCCTAGGCCTACT
CATTATTTTAGAGAATGAATGAAGCAACAAGGAAGAGAGAACATGACTCTATCGATGACACTGTTTATAGAAACA
CAGGAGAGGAAGAATTTGGAATGAAAAGCACTTCGTGCAACCTTCTGTGGGAGCCATTGAGAGAAAAGCATGGT
CCAGTGCCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTTCCTGCTCTGCTTTTGGGTCGTCAATTTGCCATCTCTGG
TTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGGCCAATTTTCAATTAACCTCTGATTAATTAGAATCAGC
TAGCCAGATTAGTAACCTCTTTGTCCAGCCTTGATTACAGTGCAGGGTAAAGTGCAGACCTTAAAAACAGCTAA
GTACCTAGAAGAGCTCCCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTTATCCACACCAGCACTAGT
GGTAATTATTCTAAATTATTGCCAAAAAGTTTTTTTTTAATCTGTCTTTCAAGTTTACAGAAAAGAAAGCAGTAAA
TGCATTGATGTCATTTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAAGATATATCAATATAAAAA
CAAGGTATATACCTTTATTATTTTTTGAACAAGGATATTGTGATCAATTTTACCCTGTAAACATATTTCTGTA
TTTATAGGTCTTAAACATGATGAATTTTTTCTATTACAAGTTTATTTAAACTGCTTTCTCAAGTCGTTATTGAT
ACAGCAAGTGAACCTGCTGCAGACAGAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAAATGAA
TGATCTTTGTAGGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAGTG
TTGGCCTATGGGAAGGTGGTCAATGAATGTTTGTATGAAATGAATGTTTTGTATAATGGCCTTAAACTTTTCTG
GAAGTATTTCAAATAAATTACATTATTAAGTCATCA

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FIGURE 1226

MVAKDYFFYLTVKRANCSLELPPASGPAKDAEEPSNKRVKPLSRVTSANLIPPVKATPLKRFSQTLQRSISFRS
ESRPDILAPRPWSRNAAPSSTKRRDSKLWSETFDVCVNQMLTSKEIKRQEAIFELSQGEEDLIEDLKLAKKAYHD
PMLKLSIMTEQELNQIFGTLDLIPLHEELLSQLRDVRKPDGSTEHVGPILVGWLPCLSSYDSYCSNQVAAKALL
DHKKQDHRVQDFLQRCLESFPRKLDLWNFLDIPSRSLVKYPLLLREILRHTPNPNPDQQHLEEAINI IQGIVAE
INTKTGESECRYYKERLLYLEEGQKDSLIDSSRVLCCHGELKNNRGVKLHVFLFQEVLVITRAVTHNEQLCYQLY
RQPIPVKDLLLEDLQDGEVRLGGSLRGAFSNNERIKNFFRVSFKNQSQSQTHSLQANDTFNKQOWLNCIRQAKET
VLCAAGQAGVLDSEGSFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESN
V

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FIGURE 1227

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCGTGCAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAGATGTGGCCTGGGTGAAAAAGATAGTTTGTCTGCTTATTATTGAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAAATGTAGAGAGAAACAAAGTGAAGCCCTACACTGCTGT
AGAGGTGATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAATAAATTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTAATTGTATTTCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAATAAAGATGGTTCTTTGGTGTCTG
CTGTCCCTAACGTCACATACTGGTTGGGTGACATCAGTAAATGGTCTCCTACCCATGAACAGCAGCTGATTCA
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTACCTACCACTTCCCATGTTGGGGCATGAAAGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTGAAGTTTATAT
AATGTTTTACCCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATACATTCTCTATACAACTTGAAATTAACTGAGTTTTACATTCTCTTT

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FIGURE 1228

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKV KALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEIC SASWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRHIRLWDPRTKDGSLSLSLTSHTGWVTSVKWSP THEQQ LISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWTDTG LLLSGGADNKLYSYRYSPTTSHVGA

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FIGURE 1229

TGCCGCTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCGCGAGCCCGCTTTCCACCCCGACCTCTGCCCAGGCCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCTGCCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 1230

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFCRTSGLCVPLTWRC
RDLDCSDGSDEEEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTS LRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLV TATLLLSWLRAQERLRPLGLLVAMKESLLSEQKTSLP

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FIGURE 1231

CGGAAGCAGGAAGTGAGTTTGCGAACGGAGCAGCTGCTGCAGGGCCCCATGGCGGACACCCAGTACATCCTGCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAGGACCCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTTCTGGTCTATGCCGCGGGTGTCTTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCAACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTCTCTGGGAATTGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCCTCAGTGCCTACAACACCCGGCTCTCAAAGAGGTGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCAGGTGACCCGGGGGACTACGCGCCCATCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCCAAGTATATAGAGAGCT
TACCCAGGGCTCCATCGAGGCCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCATCGTGGAGA
GTTACATCGGGTTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCCTCACCCCTGACTTCACCTCCCTGGATGTTCTACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCTGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGACGCGGAGAGCTTACCTTCTGGAGGAGGATGACAAGGACCTGT
ACATCTCTGGAAGGGGCCCTCCTTCGATGTGTCAGGTGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTCCGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGATGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCACACAGGCTCCGATGGGCGCCCGAGATGCCCGGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCTCACCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTTCAGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCTTGAGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCTGTG
TGTGATTTTGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTGACACTTTCCAGCCTGCCAATTGCTTCCCCTCTGTGATCTCATTTCATCTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCAGCTGACAGCTAGGGTTCAAACGTTCTCACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1232

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQL
RQHALAEGLTEEEYQAFVLVYAAGVYSNMGNYKSFGDTKFVNLPEKLERVILGSEAAQQHPPEVRGLWHTCGEL
MFSLEPRRLRHLGLGKEGITYFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVRLASVLGSEPS
LDSEVTSKLSYEFRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKRGSRFW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLTTFAGSGIPAGINIPNYDDLQTEGFKNVSLGNVLAVAYATQREKLTFLIEDDDKDLIILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLNVMVRAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPD
ARVRDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLTTLRDTVLLRKESRKLIQVP
NTHLEGSDVQLLEYEASAAGLIRSFSEFPEDGPELEEIILTQLATADARFWKGPSEAPSGQA

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FIGURE 1233

CTGATGAAAGTGCTTCCAAACTGAAAATTGGACGTGCCTTTACGATGGTAAGCGTTAACAGCTCCCACTGCTTCT
ATAATGACTCCTTTAAGTACACTTTGTATGGGTGCATGTTCAGCATGGTGTTTGTGCTTGGGTTAGTATCCAATT
GTGTTGCCATATACATTTTCACTGCGTCCTCAAAGTCCGAAATGAAACTACAACCTACATGATTAACTTGGCAA
TGTCAGACTTGCTTTTGTGTTTTACTTTACCTTCAGGATTTTTTACTTCACAACACGGAATTGGCCATTGGAG
ATTTACTTTGTAAGATTTCTGTGATGCTGTTTTATACCAACATGTACGGAAGCATTCTGTTCTTAACCTGTATTA
GTGTAGATCGATTTCTGGCAATTGTCTACCCATTTAAGTCAAAGACTCTAAGAACCAAAAGAAATGCAAAGATTG
TTTGCACTGGCGTGTGGTTAACTGTGATCGGAGGAAGTGCACCCGCCGTTTTTGTTCAGTCTACCCACTCTCAGG
GTAACAATGCCTCAGAAGCCTGCTTTGAAAATTTTCCAGAAGCCACATGGAAAACATATCTCTCAAGGATTGTAA
TTTTCATCGAAATAGTGGGATTTTTTATTCTCTAATTTTAAATGTAACCTGTTCTAGTATGGTGCTAAAAACTT
TAACCAAACCAGTTACATTAAGTAGAAGCAAAATAAACAAAACCTAAGGTTTTAAAAATGATTTTTGTACATTGA
TCATATTCTGTTTCTGTTTGTTCCTTACAATATCAATCTTATTTTATATTCTCTTGTGAGAACACAAACATTTG
TTAATTGCTCAGTAGTGGCAGCAGTAAGGACAATGTACCCAATCACTCTCTGTATTGCTGTTTCCAACGTGTGTT
TTGACCCCTATAGTTTACTACTTTACATCGGACACAATTCAGAATTCAATAAAAATGAAAACTGGTCTGTCAGGA
GAAGTGACTTCAGATTCTCTGAAGTTCATGGTGCAGAGAATTTTATTCAGCATAACCTACAGACCTTAAAAAGTA
AGATATTTGACAATGAATCTGCTGCCTGAAATAAAACCATTAGGACTCACTGGGACAGAACTTTCAAG

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FIGURE 1234

MVSVNSSHCFYNDSFKYTLYGCMFSMVFLGLVSNCAIYIFICVLKVRNETTTYMINLAMSDLLFVFTLPFRIF
YFTTRNWPFGDLLCKISVMLFYTNMYGSILFLTCISVDRFLAIVYPFKSKTLRTKRNAKIVCTGVWLTVIGGSAP
AVFVQSTHSQGNNAEACFENFPEATWKTYLSRIVIFIEIVGFFIPLILNVTCSMVLKTLTKPVILSRSKINKT
KVLKMIFVHLIIFCFCFVPYNINLILYSLVRTQTFVNCSVVAAVRTMYPITLCIAVSNCCFDPIVYYFTSDTIQN
SIKMKNWSVRRSDFRFSEVHGAENFIQHNLQTLKSKIFDNESAA

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FIGURE 1235

AGAAGGCCTCGCACAAAACACTGTACAAACCCGAAAGGAAGTCTGAGAGACGAACCGCCTTCCTCCCTGAAGCTT
CTAGAAGTGGAGCAGAAAAGAAGGTGTGGCCAGGGCCAGCCCCGCCTCCTCCCCGGGCGGAAGCTGTGTCAGTTG
CCGGAAGTCGGCGTGAGGTGGGGCTTATGCGGCGGCGTGGTGAAATAGATATGGCGACCGAGGGGGATGTGGAGC
TGGAGTTGGAGACTGAGACCAGTGGACCAGAGCGGCCTCCGGAGAAGCCACGGAAACATGACAGCGGTGCGGCGG
ACTTGGAGCGGGTCACCGACTATGCAGAGGAGAAGGAGATCCAGAGTTCCAATCTGGAGACGGCCATGTCTGTGA
TTGGAGACAGAAGGTCCCGGGAGCAGAAAGCCAAACAGGAGCGGGAGAAAGAACTGGCAAAAGTCACTATCAAGA
AGGAAGATCTGGAGCTAATAATGACTGAGATGGAGATATCTCGAGCAGCAGCAGAACGCAGTTTGGGGGAACACA
TGGGCAACGTGGTAGAGGCGCTTATTGCCCTAACCAACTGATGCGTGCTTTCTCAAATATACCTACTGGATTAAAT
TTATGGCAATAAAATTTTTTTTTTGTCTTTTTCAGTTTTATCATCTTGGGTCAAGTAGAGTGTATACTATATCCTA
TGTTGTGGAGAATTTATATGTTGGAGACTAAGTGAATTTAAGTGACCCATTAAATCTAGCACACCTGTATGAAA
AATCAGTGTAGAAGAATACCTCATGTGCAGATGCTAGGTGGCAGGCCAGTCTCATTCTGACTAGCTCTCAAC
AGTATTCAAGGTACATCTGGAGTCTCAGCAGAGTTACTGTACTCAAATGGCATGTGTCTCCAAGACAGCTTATGA
ATATCTAAAAGGCCAGCTACCTGCCTAGGAGCCACTATATATATAGATAGATGTAGGTTATGAACCCAGTTCATA
GGCCACCTTGAGTTAGAATTTTGGTACCTACAACATGCTTGATTTTGAGTGATTAAAAAAAATAATTTGGCTGG
GTGCTGTGGCTCAGCCTCTAATCCCAGCACITTTGGGAGGTGAGGCAGGTAGATCACGAGGTCAGGAATTCAG
ACCAGCCTGGCCAACATGTGAAACCCCGTCTCCACTGAAAATAGAAAAATTAGCTGGGCATGGTGGTGGGCGCCT
ATAATCCCAGCTATTCTGGAGGCTGAGGCAGGAATCGCTTGAAATTGGAAAGCAGAGGTTGCAGTGAGCTGAGAT
CACACTACTGTACTACTGTACTCCAGCCTGGGGGAAAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAA

1367/2682
FIGURE 1236

MATEGDVELELETETSGPERPPEKPRKHDSGAADLERVTDYAEKEIQSSNLETAMSVIGDRRSREQKAKQEREK
ELAKVTIKKEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

1368/2682
FIGURE 1237

ACCTCCGGAAACCGTAGATTCCGGGCGGTCCGAGCCGCCGGGAGCTGTAGTTCTCCGCGGGCTCAGAGAAGTAGG
CAGAGAGCGGACCTGGCGGCCGGGCAGCATGCGGGGCTGGAGCTCTTGTCGGACCAGGGCTACCGGGTGGACGG
GCGGCGCGCCGGGGAGCTGCGCAAGATCCAGGCGCGGATGGGCGTGTTCGCGCAGGCTGACGGCTCGGCCTACAT
TGAGCAGGGCAACACCAAGGCACTGGCTGTGGTCTACGGCCCGCACGAGATCCGGGGCTCCCGGGCTCGAGCCCT
GCCGGACAGGGCCCTAGTGAAGTGTCAATATAGTTCAGCGACCTTCAGCACAGGTGAGCGCAAGCGACGGCCACA
TGGGGACCGTAAGTCCTGTGAGATGGGCCTGCAGCTCCGCCAGACTTTCGAAGCAGCCATCCTCACACAGCTGCA
CCCACGCTCCCAGATTGATATCTATGTGCAGGTGCTACAGGCAGATGGTGGGACCTATGCAGCTTGTGTGAATGC
AGCCACGCTGGCAGTGCTGGATGCCGGGATACCCATGAGAGACTTTGTGTGTGCGTGCTCAGCTGGCTTCGTGGA
CGGCACAGCCCTGGCGGACCTCAGCCATGTGGAGGAAGCAGCTGGTGGCCCCCAGCTGGCCCTGGCCCTGCTGCC
AGCCTCAGGACAGATTGCGCTGCTTGAGATGGATGCCCGGCTGCACGAGGACCACCTGGAGCGGTGTGGAGGC
TGCTGCCCAGGCTGCCCAGATGTGCACACCCTCTTAGATCGAGTGGTCCGGCAGCATGTGCGTGAGGCCTCTAT
CTTGCTGGGGGACTTGACCACCCAGCCACCCATGTCCAGAATAAACCCCTCCTTGCCACACXAAAAAAAAA

1369/2682
FIGURE 1238

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRGSRARALPDRALVNCQ
YSSATFSTGERKRRPHGDRKSCEMGLQLRQTFEAAILTQLHPRSQIDIYVQVLQADGGTYAACVNAATLAVLDAG
IPMRDFVCACSAGFVDGTALADLSHVVEEAAGGPQLALALLPASGQIALLEMDARLHEDHLERVLEAAAQAARDVH
TLLDRVVRQHVREASILLGD

1370/2682
FIGURE 1239

TCGCTTTGTGATTCTTGATCCGGAACCTTTGTCACCCAGGAACCCCGGAAGAGGTAGCTCACGCGATAGAAACGTG
TTCGCTTGCCAGAGAAGGGAAGGCGCGAGTGAGGAAAGGAGGTACTGTAGATGCCCTCCAAATCCTTGTTAT
GGAATATTTGGCTCATCCCAGTACACTCGGCTTGGCTGTTGGAGTTGCTTGTGGCATGTGCCTGGGCTGGAGCCT
TCGAGTATGCTTTGGGATGCTCCCCAAAAGCAAGACGAGCAAGACACACAGATACTGAAAGTGAAGCAAGCAT
CTTGGGAGACAGCGGGGAGTACAAGATGATTCTTGTGGTTCGAAATGACTTAAAGATGGGAAAAGGAAAGTGGC
TGCCCAGTGCTCTCATGCTGCTGTTTCAGCCTACAAGCAGATTCAAAGAAGAAATCCTGAAATGCTCAAACAATG
GGAATACTGTGGCCAGCCCAAGGTGGTGGTCAAAGCTCCTGATGAAGAAACCTGATTGCATTATTGGCCCATGC
AAAAATGCTGGGACTGACTGTAAGTTTAATTCAAGATGCTGGACGTACTCAGATTGCACCAGGCTCTCAAACGT
CCTAGGGATTGGGCCAGGACCAGCAGACCTAATTGACAAAGTCACTGGTCACCTAAACCTTTACTAGGTGGACTT
TGATATGACAACAACCCCTCCATCACAAGTGTTTGAAGCCTGTCAGATTCTAACACAAAAGCTGAATTTCTTCA
CCCAACTTAAATGTTCTTGAGATGAAAATAAAACCTATTCCCATGTTCTAAAAAAA

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FIGURE 1240

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMLPKSKTSKTHDTSEASILGDSGEYKMILVVRNDL
KMGKGKVAAQC SHAAVSAYKQIQRRNPEMLKQWEYCGQPKVVVKAPDEETLIALLAHAKMLGLTVSLIQDAGRTQ
IAPGSQTVLGIGPGPADLIDKVTGHLKLY

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FIGURE 1241

GGCACGAGGCCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTGCGCGTCATCGTTTCGCGCGTGCAGCTCCCGCC
TGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAGGAAGCTCCGGAA
ATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGTGTGGAAGGACT
GTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTCCCAGCTCGTTCA
TGCTTTTCAGACCACGGAGGCGCAGCACCTGTTTCCTTCAGGCCTTCTGGCAGACCATGAATCGCGAGTGGACGGG
CATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTTGAAGGTTCTGAA
GATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCTGCACCCAGCAG
CCAGGCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGTGGGCGCCGAGGA
GCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATCGCTGCCCCGACCAAGGATTCTTGTT
TTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCGCTTGCCATTGAAGACCTCCTGAA
TGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGAGCGTGGAGACGC
GCTGTCCAGAAAGAGGTCTGAGAAGCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGCTGGTGAGGAGCA
GGCAGGTGACGACAGGGACAGTGGCGGCCCGTCTCCAGTTTACTACGAGGCAGTTGCTAACAGACTGTTTGA
AATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAAGTGCAGGACCT
GGCAGGAGGCATTTTCCCTGAAGATGAGATCCAGAGAAGGCTGCAGGCGCTGCTTGAAGGGAGGCGGCAGAA
GAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAGGTGAGAAGGACCCCCGAGCCC
GGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGAGGCTGGTGAGCA
GCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGCTCGCCAGAGAAG
GAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGAGAAAGAAGAAGAAACG
CAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGCACCGCGGACGAGGCTG
ACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCTGTGCCAGGCGGGAGGGAAGGGCGGCACTGGA
GAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAAGTGGACCTTTCCCGAGGCCTCCGCCTGTGGCTGTGAT
GACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCTGCCCTGTGTGGGG
GGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGAAGTGTGCTTTCGGGTGTGTCTACGACGTGTGGGA
GGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTCAATGTTTGTGGAAAAATCTTGAAGACATTTCT
CCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCCTCAATCTGGGGTC
TAGAGTTGTGCAGGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGTGGTGGGAAGACCT
GGCTTCCGCGAGAGCCTTGTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGGTCCGAGGCTGCG
CACCTCTTTCCCTCAGCCAGGTCACCCCTCAGCGTCTCCCTGCCCTCTCCCCTTCACACCTGTGGAGCCTGTG
AGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCTACCTGCATGGAACAA
GGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTGTGGTTTTGCCCGCA
TCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCTTGGAGTGGGCCTG
GGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCTTGGACTGCATCCGGTTCCCCAAAGCCCTGC
TGCATTGAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCACTCAGCTGGGCGGC
CGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAGGGGTAGGGTTCT
TTCCCCAAAGGAACCTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG
GCCGAGGTGGCCAGATCACCTGAGGTGAGGATTTGAGACCAGACTGACCAACATGGAGAAACCCATCTCTACT
AAAATACAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
GCTTGAACCTGGGAGGCAGAGGTTGTGGTGAAGTACGCCATTGCACTCCAGCCTGGGCAACGAGAGGGA
AACTCTGTTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1242

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWKGLFYCMWMQDKPLLQEEL
GRTISQLVHAFQTTEAQHLFLQAFWQTMNREWTGIDRLRLDKFYMLMRMVLNESLKVLKMQGWEERQIEELLELL
MTEILHPSSQAPNGVKSHFIEIFLEELTKVGAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQA
PLAIEDLLNELDTQDEEVASDSDESSEGGGERGDALSQKRSEKPPAGSICRAEPEAGEEQAGDDRDSSGGPVLQFDY
EAVANRLFEMASRQSTPSQNRKRLYKVIRKLQDLAGGIFPEDEIPEKACRRLLEGRRQKKTKKQKRLRLQQERG
KGEKEPPSPGMRKRSRRRGVGADPEARAEAGEQPGTAERALLRDQPRGRGQRGARQRRRTPRPLTSARAKAANV
QEPEKKKKRRE

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FIGURE 1243

GGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCCCTGAGGTGTCGCCGCCTCCC
TGTCCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGCGCGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGCGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCCTGTTTCCCTCTCCGGCCCCAC
CGCGGATC**ATGT**ACCAGGATTATCCCGGAACTTTGACACCTCGTCCCGGGGAGCAGCGGCTCTCCTGCGCAGC
CCGAGTCTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTGGCACCCCGTGGGCGCGAGGAGGAGAGATGAGCAGCTGTCTCCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGCTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTCATGTTGGTGGCTCACGGCCAGTGTGCAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCAGCCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAAC
AGGAGCCCCCTGGAAGAGGACAGCCCCCTCGTCTCGTCGGCGGGGCTGGACAAGGCCAGCGCTCTGTCTCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCCTGACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTTGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAACCCCCACTC
TGCTGGCTCTG**TAA**CCCACTGCACCTCCCTCCCCAGCTCCGGAGGGGGTCTCCTCGCTCCTCCTTCCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGAAGCAAATCCCATTTCTTGAAAAGCCTTGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATCTGTCTCTGGAGTGATGGTGTG
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCTTTTCTTCCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCATCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGGAIAA

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FIGURE 1244

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITMSNP
YPRSHPYSPPLGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPEEEEKRRIRRRERNKLAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGVPCKISPEERRSPPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPISIAGGFYGEELHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPSESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1245

AATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTTCTTTCCGTTGCTGGCGGAAGAGGCACGTGCGCTG
CTGAATGGAGCTGGTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTGCTGTACACCCGGAGCCCAAGGCTTG
CGCGGACCACGAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGTCAGCAGTAGC
TGTAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGA
GCATGGGGCTCTAGTGCACTACAGTGGTACAATAACTTGCCTGAAATTCTATGGCAACAGGCATTTAATCAGTGG
AGCGGAAGATGGACTCATCTGTATCTGGGATGCAAAGAAATGGGAATGCCTGAAGTCAATTAAAGCTCACAAAGG
ACAGGTGACCTTCCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTCGGTTGGTACAGATAAACTTTAAGAAC
GTGGAATCTTGTAGAAGGAAGATCAGCATTCTATAAAAAATATAAAACAAAATGCTCACATAGTAGAATGGTCCCC
AAGAGGAGAGCAGTATGTAGTTATCATACAGAATAAAATAGACATCTATCAGCTTGACACTGCATCCATTAGTGG
CACCATCACAAATGAAAAGAGAATTTCTCTGTAAATTTCTTTTTCAGAGTCTGTCTTGCAGTGGCTGGAGATGA
AGAAGTTATAAGGTTTTTTGACTGTGATTCACTAGTGTGCCTCTGCGAATTTAAAGCTCATGAAAACAGGGTAAA
GGACATGTTTCAGTTTTGAAATTCAGAGCATCATGTTATTGTTTCAGCATCGAGTGATGGTTTCATCAAAATGTG
GAAGCTTAAGCAGGATAAGAAAGTTCCCCCATCTTTACTCTGTGAAATAAACTAATGCCAGGCTGACGTGTCT
TGGAGTGTGGCTAGACAAAGTGGCAGACATGAAAAGCCTTCTCCAGCTGCAGAGCCTTCTCCTGTAAGTAAAGA
ACAGTCCAAAATGGCAAAAAGGAGCCTGGTGACACAGTGCACAAAGAAGAAAAGCGGTCAAACCTAACACAAA
GAAACGCGGTTTAACAGGTGACAGTAAGAAAGCAACAAAAGAAAGTGGCCTGATATCAACCAAGAAGAGGAAAT
GGTAGAAATGTTGAAAAGAAGAGGAAAAAGAAGAAATAAAAAACAATGCAGTGAATCACAGATGTCTCCTGAAA
GAACTCTTTTAGATGAAATCATTCTACTCAAATGTACCTTAATTTTTTTTTTCCCTGAGTAAAAGCAAGAAAT
TCTTCCTTTGAAAAAATATATATATTAATAAAACCCTTTTAGATGGTTTTTTTTTAAAAAATAAATAAATGTTAATGTGTCATGTA
TAAATTACTTTTGGCAGACAGTGTATGAATTATGTATCATGTTGATATATAATATGTTAATGTGTCATGTA
ATTTTACTTTGTACAAAGCAAATAAAGATCTTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MELVAGCYEQVLFGFVHPEPKACGDHEQWTLVADFTTHAHTASLSAVAVNSRFVVTGSKDETIHIYDMKKKIEH
GALVHHSGTITCLKFYGNRHLISGAEDGLICIWDAKKWECLKSIKAHKGQVTFLSIHPGKLALSVGTDKTLRTW
NLVEGRSAFIKNIKQNAHIVEWSPRGEQYVVI IQNKIDYQLDTASISGTITNEKRISSVKFLSESVLAVAGDEE
VIRFFDCDSLVLCLCEFKAHENRVKDMFSFEIPEHHVIVSASSDGFIMWKLKQDKKVPPSLCEINTNARLTCLG
VWLDKVADMKSLPPAAEPSVSKESKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKKATKESGLISTKKRKMV
EMLEKKRKKKKIKITMQ

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FIGURE 1247

AGCAGGTTTCGAATGCTCTTTACTTCCTTTGTGGAGCAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAG
ACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTCTTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTG
AAACAGCCTCGAAAAAGGTCATGGCTTGCAAAACCGCTTTAATAAAACCGGGTTCCAAGAAGTGTTCATCCT
CCTCATTATGAAGTGTTCCTACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTGGAAGAATTGGAC
AACTACCAGAGGATGCGGCGCTCCTCCACCGCTCCCGCTGCATCCAGACCACCACTGTGGGTGCGAGGCCTCC
AGCGTCAAACAAAGCAGGACCAACCTCAGTTCCATGGAGCTTCTCTCCGAAATGACTTTGCACAACCACAGCCA
ATGAAAACATTTAATAGCACCTTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAGTGCCCTGAGCAGGCC
CTGGAAGACCGAGTAATGGAGGAGATTCCCTGTGAAATTTATGTGAGGGGCGAGAAGATTCTGCACAAGCATCC
ATATCCATTGACTTCTAATCTTCTGCTAATGGTGATGTGAATCTTAGGGTGTGTACGTACGCAGCCTCCAGGGC
ACCATACTGTTTCCAGCAGCCAACCTTTTCTCCCATCACAACCTACGAAGACCTTGATTTACCGTTAACCTATTG
TATGGTGATGTTTTTATTCTCTCAGGCAGTCTATATATGTTAAACCAATCAAGGAACCTACTCTATTAGTGGAA
ACAATAATCATCTCTATTGCTTGGTGTCATTATAGGAAGCACTGCCAGTTAAAGAGCATTAGAAGAGGTGGTTG
GATGGAGCCAGGCTCAGGCTGCCTCTTCGTTTTAGCAACAAGAAGACTGCTCTTGACTGATAACAGCTCTGTCAA
TATTTTGATGCCACAATAAACTTGATTTTTCTTTACATTCCTTTTATTTTTCTTTCTCTAAATTTAATTTGTT
TATAAGCCTATCGTTTTACCATTTCATTTTCTTACATAAGTACAAGTGGTTAATGTACCACATACTTCAGTATAG
GCATTTGTTCTTGAGTGTGTCAAATACAGCTAGTTACTGTGCCAATTAAGACCCAGTTGTATTTCACCCATCTG
TTTCTTCTGGCTAATCTCTGTACTTCTGCCTTTTAAATTACTGGGCCCTTATTCCTTATTTTCTGTGAGAAATAA
TAGATGATATGATTTATTACCTTTCAATTATATTTTCTCAGTTATACTAGAAAATTTTATAATCCTGGGATATA
TGTACCATTGTCAGCTATGACTAAAAATTTGAAAAAGATAAAAAATTTCTAGCAAGCCTTTGAAGTTTACCAAGTA
TAGTCACATTGACGACAGCCATTTCATTCCAGTAAAGAATCATTTCATTCACTTTGGGAGAGGCCTATAATTAC
ATTTATTTGCAATGTTTCTTCTCGCTAGATTGTTACATAGCTCCCATTCGTGTTGGTTTTGCTTACAGCATATGGT
AACCAAGGTTAGATGCCAGTTAAATTCCTTAGAAATGGATGAGCCTTGAGATTGCTTCTTAACTGGGACATGA
CATTTTCTAGCTCTTATCAAGAATAACAACCTCCACTTTTTTTTAACTGCACCTTTTGAATTTTTTATGGTAT
AAAAACAATAATTTATAAACATAAAAGCTCATTGTGTTTTTACTGTTTTGATATTTTGTACTGTACAACT
TTATTAAATCAAGATGAAAGACCTACAGGACAGATTCCCTTTCAGTGTTACATCAGTGGCTTTGTATGCAATAT
GCTGTGTTGGACCTGGACGCTATAACTTATTGTAAAGACCTTGAAATGTGGACATAAGCTCTTCTTCTCTTTT
GTTACTGTATTTAGTTTGTGATAAATTTTCACTGTGTGATATTTATGCTCTAAATCACTACACAAATCCCATAT
TAAATATACATTGTACCTGACCCTTTAATCATGTTATTTATGCCACCAAGGTTGTGGATCTTAAGGTATGTATG
GAAAGGAACCTATTTATCAAATTGTAAGTAATACAGACATGCCATTTAAAGAGGTAAATCTTGTGTTTTCTATAT
TTTGTAGTAAATCTCAATGAAATAAGTTGAAGTTTCACTGGATTTCACTAATTTTAAATATTACATATATGT
GTTTTCTCAGATTAGTGAAATTTGTGACCTTAAATTTAATACATATACTGCCTCAG

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FIGURE 1248

MLFTSFVEQKKKAGVFEQITKTHGTIIIGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPHYE
LFSLRDKEISADLADLSEELDNYQRMRRSSTASRCIHDHHCQSQASSVKQSRNLSSMELPLRNDFAQPQPMKTF
NSTFKKSSYTFKQGHECPEQALEDRVMEEIPCEIYVRGREDQAQASISIDF

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FIGURE 1249

AAACCCAAAGCGGCCGCCGTAGGCGAAGGTGAAGATGGCTGCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTT
TGCAITGTCCACTGGACGTTTTAGTCATATTACAGACACCAGTTGTTTCCCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCCGTGCTTCCAAGTGTCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCACTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTCACTTGTCTCAGTTATTGGATATGTATCTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACCTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACACACATTAACCTTAGAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAACAGAAATTTAGAAATGGTGCATTATTTTAAACAAATG
GTATTGGCTTAACTAGTTGTTTCACTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAGA
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACACCT
CACCAACCCCATCTCCACTCAGAAATCACCTCCAGCCTCAGGAAGAGTAGAAATGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCTTTTGAATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCACTCTCTGCTAGTCTCCAATGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTATACTAGGTCTGGTTGGGTCAATTGTCTAGAGTAGGGATTGGCTGTCTTAAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTTCATATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTCAATTGTGTTTATAACACTTGTCAATTTACTGTAACAACATT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTGAAGATAGGTATTTATTTTTCTAGAGACAGGAGTTTGCTCTGTTGCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCCCTCAGCTTACT
GAGTAAGGATATGATTTCTTAAAGTTAGTTTATCCACTTCAGATTTTCAATGTTTTCATTTGTAAGGATAAACTT
TTCCACAAAATTTTCAACAATCATGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTGTTTACTTGAAGTGGGAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGAAGCATTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTGTTAGTAAATTTATGAAATTGAAGTTCTGCAGCATGTGAGGCCAGGATTATTAGGGAGATTCTCGAAACT
AGTGTGTGTTTTATTAAGGAGAAAGGATAACAATAGAATGTTCTAAAACAGAAAGTCCAAGTGCCTGTCTACTT
ATGGGACCAATAAAATAAAGAACAGACATTTGATTTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCACTTCTTCGCACTTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAAATGGTGCCTGCAGAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAATATGGATGACAAGGCTCTGTGTACAGGGGCTCAG
AGCACCTTCGTTTCTCCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAAGGGAATTTTATACATACGATTTTGTGTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1250

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSEARNLTCGHTSVI
LNRMAPVLP SVLKLEPVRSLTYFSARKGKRKTVKAVIDRFLRLHCGLWVRRKAGYKKKLWKKTPARKKRLREFVFC
NKTQSKLLDKMTTSFWKRRN

1382/2682
FIGURE 1251

GGCAACGAGGGGCTGCCTCTGCGGGGTCCGCTAGTCGCGGGGCGGCGGCGGCTGCGGGCGCGAGGTTCCAG
CAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAGAGGGCCCAGCCCGCCCGGGGCAGGATGACC
AAGGCCCGGCTGTTCCGGCTGTGGCTGGTGTGGGGTTCGGTGTTCATGATCCTGCTGATCATCGTGTACTGGGAC
AGCGCAGGCCCGCGCACTTCTACTTGCACACGTCCTTCTTAGGCCGCACACGGGGCCGCCGTGCCACGCCC
GGGCCGGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTCGACGAGTTTCTGGACAAGTTTCTCAGTGCTGGC
GTGAAGCAGAGCGACCTTCCCAGAAAGGAGACGGAGCAGCCGCTGCGCCGGGAGCATGGAGGAGAGCGTGAGA
GGCTACGACTGGTCCCCGCGGACGCCCGGCGCAGCCAGACCAGGGCCGGCAGAGGCGGAGCGAGGAGCGTG
CTGCGGGGCTTCTGCGCCAACCTCCAGCCTGGCCTTCCCCACCAAGGAGCGCGCATTCGACGACATCCCCAACTCG
GAGCTGAGCCACCTGATCGTGGACGACCGGCACGGGGCCATCTACTGCTACGTGCCAAGGTGGCTGCAACCAAC
TGGAAGCGCGTGATGATCGTGTGAGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATC
CCGCGCGAGCAGCTGCACAACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCGCTACGGGAAGCTCTCC
CGCCACCTCATGAAGGTCAAGCTCAAGAAGTACACCAAGTTCTCTTCTGTCGCGACCCCTTCTGTCGCGCTGATC
TCCGCTTCCGCGACAAGTTGAGCTGGAGAACGAGGAGTTCTACCGCAAGTTGCGCGTGCCCATGCTGCGGCTG
TACGCCAACACACCAGCCTGCCCGCTCGGCGCGGAGGCCTTCCGCGCTGGCCTCAAGGTGTCTTCGCCAAC
TTCATCCAGTACCTGCTGGACCCGCACACGGAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGCAGGTGTACCGC
CTCTGCCACCCGTGCCAGATCGACTACGACTTCTGTTGGGAAGCTGGAGACTCTGGACGAGGACGCCGCGCAGCTG
CTGCAGCTACTCCAGGTGGACCGGCAGCTCCGCTTCCCCCGAGCTACCGGAACAGGACCGCCAGCAGCTGGGAG
GAGGACTGGTTCCGCAAGATCCCCCTGGCCTGGAGGCAGCAGCTGTATAAACTCTACGAGGCCGACTTTGTTCTC
TTCGGCTACCCCAAGCCGAAAACCTCCTCCGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCTTGAAC
CTGACGCACGCGCACTCCAGTTTTTTTTATGACCTACGATTTTGCAATCTGGGCTTCTTGTTCACTCCACTGCCTC
TATCCATTGAGTACTGTATCGATATTGTTTTTAAGATTAATATATTTACGGTATTTAATACGAAATGTGGAAGG
GAATGCTGGAGTAAATATCCCTCTCCCTCCGCCCCGCCCCGCCCCGCTCGCCCCGCCCGCTCGC
CCGCTCCTGTGGTTTTTTCTGAGCGTGCGGGCTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTA
GGGCCACTCACCGAGGAGGGCGGGCCTGCACTTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG
ACAAATCCTTCCAGAGGGAAGTTCTTTGTTTAAGTGTTGACTTGAAAAGGTCAATCTTCAGGGCTTCCTGTTT
GAAGTCAAGTCAGAGGTAAACCGGTCAATTACAGAAGCAGGATTTCTAGGATTTCTAACTCCAGCTGTTCCATA
CTGTCTAGTTTAAATTATGGCTGTTAAGGCCGGGCGGGTGACTCAGGCAGGTAATCCAGAACTTTGGGAGGCCC
AGACAGAAGGATCGCTTGAGGTCAGGAATTTGAGACCTGGCCAACATGGTGAAACCTGTCTCTACTAAAAAAA
AAAAAAAAAAAAAAAA

1383/2682
FIGURE 1252

MTKARLFRLWLVLGSVFMILLIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDEF LDKFLS
AGVKQSDLPKETE QPPAPGSMEE SVRGYDWSPRDARRSPDQGRQQAERRSVLRGFCANSSLAFFTKERAFDDIP
NSEL SHLIVDDRHGAIYCYVPKVACTNWKRMIVLSGSL LHRGAPYRDPLRIPREHVHNASAHLT FNKFWRRYGK
LSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF
ANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLET LDEDAQAQLLQLLQVDRQLRFPPSYRNRTASS
WEEDWFAKIPLAWRQQLYKLYEADFVLF GYPKPENLLRD

1384/2682
FIGURE 1253

AGTCTTGGCGGAGGTGACCAAAGCCACGTAATGTCCTAGTTCGCTCATCCGTCCATGCCAGATGGATTGTGGGG
AAGGTGATTGGGACAAAAATGCAAAAGACTGCTAAAGTGAGAGTGACCAGGCTTGTTCTGGATCCCTATTTATTA
AAGTATTTTAATAAGCGGAAAACCTACTTTGCTCAGATGCCCTTCAGCAGTGCACAGTTGGGGATATTGTGCTT
CTCAGAGCTTTACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAA
GTCATAGATCCAGTGACAGGAAAAGCCCTGTGCTGGAACCTACCTACCTGGAGAGTCCGTTGAGTTCGGAAACCACC
CAGCTAAGCAAAAATCTGGAAGAAGTCAATATCTCTTCAGCACAGTGAAGCGGGAGTGGAAGAAGGATCTAAAGG
GAAAAACTGACATGTTTATGTTATGGAAAAAGAAATTTTCTAAGTTTCATCACAACTGTGTCCAGTTTCTCTG
TGGTGTATGAAATAGCTAAAAGCAAATGAAGTAAAGGGCATACTATGTTTTTCACAAAAAAAAAAAAAAAAAA

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FIGURE 1254

MSVVRSSVHARWIIVGKVI GTKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALPVPRAK
HVKHELAEIVFKVGKVIDPVTGKPCAGTTYLESPLSSETTQLSKNLEELNISSAQ

1386/2682
FIGURE 1255

GAGTTTTCATTTGTGGTGAGATTCTCTCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTGTCCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTTGTGATGACTATATGGCAACTC
TTTGCTGTCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTGGCATGAAAAAATCAAATTTTGAATTTATTAT
AAATGAATGTTGTCCCTGAACTTAGCTAAATGGTGCAACTTAGTTTCTCCTTGCTTTCATATTATCGAATTTCT
GGCTTATAAACTTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAA
AAATAAAAAA

1387/2682
FIGURE 1256

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

1388/2682
FIGURE 1257

ACGAGGATCCGGTGTTCACCCAGGGGGAAAAATGCGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAG
AAGATAGCGAAATACATTGGGGGAGAATCTTCAACTGCTGGTGGACCGGCCGATGGCACCTACTGTTTCCGTCTG
CACACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTG
TCGCTGGGGACCTGCTTTGGAAAATTTCACTAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTT
GCACCTTATGCCAAGTATAAAGTTTGGATAAAGCCTGGTGCAGAGCAGTCCTTCCTGTATGGGAACCATGTGTTG
AAATCTGGTCTGGGTCTGAATCACTGAAAATACTTCTCAGTACCAGGGCGTGGTGGTGTACTCCATGGCAGACATC
CCTTTGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTGTGGTATTT
CATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAACGAAGCCATTCCAAGGACAGAC
GGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGIGGACTCCACCATCATGTTGAATTTTGTCAACACT
CTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTATTATATAC
AGAGATGGCTCAAAAATGGGGTTTTAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATCAGAGGGCT
TCTTGTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGTGATAACACT
GTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAATAAACCACA
TGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTGGTGTGTGGT
ATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCATTTCAGCTTT
AATAAGGTTTCAATTTCTTCTGTTTAAAAAGACACAAAACCTGAAAATCAGCTTTGGCCATCTACCTGAGAATTAG
AAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGTGCGCCTGTAATCCCAGCACTTTG
GGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTC
TACTAAAAAAA

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FIGURE 1258

MRPLTEETRVMFEEKIAYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFRLHVLTALDYLAPYAKYKVVWIKPGAESFLYGNHVLKSGLGRLTENTSQYQGVVYSMADIPLGFGVAAKST
QDCRKVDPMIAIVVFHQADIGEYVRHEETLT

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FIGURE 1259

GGAAGAAAACCTGAAAAAGACCCCAAAGAAGAATATGAAAATGGTAACTGGAGCCGTAGCGTCGGTGCTGGAAGA
CGAGGCCACAGACACTTCTGATAGTGAAGGAAGCTGTGGATCGGAAAAGGACCACCTTTATTCTGATGATGACGC
AATAGAAGCTGACAGTGAGGGTGATGCTGAGCCCTGTGACAAAGAAAATGAAAATGATGGAGAATCAAGTGTGG
GACTAATATGGGCTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCCTGAAAGTAAACCTACTATTCT
GGTCAAAAATAAGAAGCTGGAAGGAAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAAAACAGCGTGA
TAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGACAAAGAGACAGAGAGAAATCT
TCAGAGAATTGCAACAAGGGGTGTGGTGCAATTATTTAATGCTGTTTCAGAAACATCAAAAGAATGTTGATGAAAA
GGTTAAGGAAGCTGGAAGTTCTATGAGAAAGCGTGCTAAGTTGATATCAACTGTTTCCAAGAAAGATTTTCATCAG
TGTTTTGAGAGGGATGGATGGAAGTACAAATGAGACTGCTTCAAGCAGGAAGAAACCAAAAGCCAAACAGACTGA
AGTGAATCAGAAGAAGGCCAGGTTGGACGATCCTACGTGATGATTTTCATGATGGGAGCATCTATGAAAGACTG
GGACAAGGAAAGTGATGGGCCAGATGACAGCAGACCAGAATCTGCAAGTGACTCTGATACATAAAGCATCATAGG
AAATACAATTGCAGTCGTTTTATTTTTCTAGAAAAATATGTCATCCTCTGATAGTTGGGGAATTATAAGGATAC
CATTTGTAAGAAAGCCAAAGACTTTTGCCAGATTTTCATATTTCCCTTTTTCATGTACACTTTATATATACTTCA
TTAAAATTATATTTTAAACCTTGTATAATTTTAAAGCATTGTTCCCTCAGAACATTTGTAAGGATATATTTCTG
CTTGACCAGCGAGATGTGCATTTTGCCAGGATCATATTGGTCATGTCTATTGGTGTATTATTTTCAGTATCACCAA
TGTTTTCAGAAATACAGTACTAATTCATCATTAACTCTTTGAAGTTAATATTTTTCTGCCTTCTAACTTATAGA
CTCAACTATGTATCTGTAGTTTTTGGGAATGGTTGGTGTTTTTTGTCTTGTGTTGGGAAGTTATTGAGAAAACCT
ATATAATAAAATTTAAAATTATAGTTTTTCAA

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FIGURE 1260

MKMVTGAVASVLEDEATDTSDEGSCGSEKDHFYSDDDAIEADSEGDAEPCDKENENDGESSVGTNMGWADAMAK
VLNKKTPESKPTILVKNKKLEKEKEKLKQERLEKIKQRDKRLEWEMMCRVKPDVVQDKETERNLQRIATRGVVQL
FNAVQKHQKNVDEKVKEAGSSMRKRAKLITVSKKDFISVLRGMDGSTNETASSRKKPKAKQTEVKSEEGPGWTI
LRDDFMMGASMKDWDKESDGPDDSRPESASDSDT

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FIGURE 1261

AAACATGAATTCAAACGGCTCATCTTATTTGACCATTTCGGCCCCATCATGAAAGTGAAAAATGAAAAGCTCAAC
ATGGCCAAACACGCTTATCAATGTTATCGTGCCTCTAGCAAAAAGGGTGGACAAGTTCCGGCAGTTCATGCAGAA
TTCAGGCCTGCTGATGAAGTTTTTAGATGTGTGCCTTTAAGCCCTTGATTGTGCGGTGTTGGATCTTAGAAGCTG
TGATGGCTCAGATGCACATATTGGCTGAGGATAACCAGCTAAGTGATTTCACCAGCTTGTTTTAAACATAGAAAA
TCCTACTGTCTAATTATAAATCTTGAAAGATCAAGCTGATTTTTTATTTCTTTTTTTTTGAGATGGAGTCTTACT
CTGTCACCCAGGCTGGAGTGCAGTGGCACGAACCTCTGCTCACTGCAACCTTCACCTCCCAGGTTTCAGGGAGATGT
GCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAG
TACTTGAAAACACTTCCAAAGCTGCCAACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGG
GAAAGGGACTTGATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCCTTCTCTTTTTCTGTGATGTGGACATCT
ACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAGGTATTTATCCAGTCTTTT
TCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGATGCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAA
AGAAGGAAACTGGATTTTGGAGAGACTTTGGATTGTTGGGATGACGTGTCAGTATCGGTTCAGACTTCATCAATATAG
GTGGGTTTGATCTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGCAACC
TCATAGTGGTACGGACGCTGTGCGAGGACTCTTCCACCTCTGGCATGAGAAGCGCTGCATGGACGAGCTGACCC
CCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCACGGCCAGCTGGGCATGCTGGTGT
TCAGGCACGAGATAGAGGCTCACCTTCGCAAACAGAAACAGAAGACAAGTAGCAAAAAACATGAACCTCCAGAG
AAGGATTGTGGGAGACACTTTTTCTTTCTTTTGTCAATTACTGAAAGTGGCTGCAACAGAGAAAAGACTTCCATA
AAGGACGACAAAAGAATTGGACTGATGGGTCAGAGATGAGAAAGCCTCCGATTTCTCTCTGTGGGCTTTTTACA
ACAGAAATCAAATCTCCGCTTTGCCTGCAAAAGTAACCCAGTTGCACCTGTGAAGTGTCTGACAAAGGCAGAA
TGCTTGTGAGATTATAAGCCTAATGGTGTGGAGGTTTTGATGGTGTTTACAATACACTGAGACCTGTTGTTTTGT
GTGCTCATTGAAATATTCATGATTTAAGAGCAGTTTTGTAAAAAATTCATTAGCATGAAAGGCAAGCATATTTCT
CCTCATATGAATGAGCCTATCAGCAGGGCTCTAGTTTCTAGGAATGCTAAAAATATCAGAAGGCAGGAGAGGAGAT
AGGCTTATTATGATACTAGTGAGTACATTAAGTAAAATAAAATGGACCAGAAAAGAAAAGAAACCATAAATATCG
TGTCATATTTTCCCCAAGATTAACCAAAAAATAATCTGCTTATCTTTTTGGTGTCTCTTTTAACTGTCTCCGTTTT
TTTCTTTTATTTAAAAATGCACTTTTTTTCCCTTGTGAGTTATAGTCTGCTTATTTAATTACCACTTTGCAAGCC
TTACAAGAGAGCACAAGTTGGCCTACATTTTTATATTTTTTAAGAAGATACTTTGAGATGCATTATGAGAACTTT
CAGTTCAAAGCATCAAATTGATGCCATATCCAAGGACATGCCAAATGCTGATTCTGTTCAGGCACTGAATGTCAGG
CATTGAGACATAGGGAAGGAATGGTTTTGTACTAATACAGACGTACAGATACTTCTCTGAAGAGTATTTTCGAAG
AGGAGCAACTGAACACTGGAGGAAAAGAAAATGACACTTTCTGCTTTACAGAAAAGGAACTCATTTCAGACTGGT
GATATCGTGATGTACCTAAAAGTCAGAAACCACATTTTCTCCTCAGAAGTAGGGACCGCTTTCTTACCTGTTTTAA
ATAAACCAAAGTATACCGTGTGAACCAAACAATCTCTTTTCAAAAACAGGGTGCTCCTCCTGGCTTCTGGCTTCCA
TAAGAAGAAATGGAGAAAAATATATATATATATATATATATTTGTGAAAGATCAATCCATCTGCCAGAATCTAGTG
GGATGGAAGTTTTTGTACATGTTATCCACCCAGGCCAGGTGGAAGTAACTGAATTATTTTTTAAATTAAGCAG
TTCTACTCGATCACCAAGATGCTTCTGAAATTTGCATTTTATTACCATTTCAAATATTTTTTAAAAATAAATAC
AGTTAACATAGAGTGGTTTTCTTCATTATGTGAAAATTATTAGCCAGCACCAGATGCATGAGCTAATTATCTCTT
TGAGTCTTGTCTTCTGTTTGTCTACAGTAAGCTCATTGTTTAAAAAGCTTC

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FIGURE 1262

MESYSVTQAGVQWHELCSLQSPPRFREMCIQDGRVHLTVVYFGKEEINEVKGVLENTSKAANFRNFTFIQLNG
EFSRGKGLDVGARFWKGSNVLLFFCDVDIYFTSEFLNTCRLNTQPGKKVFYPVLFSQYNPGIYGHDAVPPLEQ
QLVIKKETGFWRDFGFGMTCQYRSDFINIGGFDLDIKGWGGEDVHLYRKYLHSNLIVVRTPVRLFHLWHEKRCM
DELTPEQYKCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSSKKT

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FIGURE 1263

CCGCTGTTATACGTCACTTCCACGGCTCAGCGTCAGGGAGGAGAGAGAATGCTTTTCGAGGCGGAGGTCGTGGA
GGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGGC
GGTGGAGGCGGCGGCAATTTAGAGGCGGCGGCAGGGGAGGATTTGGACGAGGGGGTGGCCGCGGAGGCTTTAAC
AAAGGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCCTGCATCCCTGTGAAGATGACATA
GTTTGTAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAAACAAAGAACAA
ATTGAAAAGTGGATGAAATATTTGGACAACCTCAGAGATTTTTATTTTTTCAGTTAAGTTGTCAGAAAACATGAAG
GCTTCATCCTTTAAAAAACTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCT
CGACCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGC
AGAGGTGGTGGCAGAGGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGGCTTCAGAGGAGGAAGAGGT
GGTGGTTTCAGAGGGAGAGGACATTAAAGTGAAACAGTTGACAGACATCACCAGTTGACTTCTGCATTAACCTGCA
TGATCTGTTTCTACTATGGATTGGAACTTGTTTCTTGAACAAGTCTTGAAGATCTTGGTCATTTTATGACAATG
GATCTAAATGTCAGCATCATGCAAAGTGCAACGGAATAGTGAATTTTGCTCTAAAAGAGCATGAACAAGTCTTT
CTAATGTTTTGTACAGTGCCCTGGCACTCTGTGGGTGCTCAATAAATGGATAGGAGTTTTTCATTTGAAGCATATTT
GAATTTTTAAAATAAAGTGTTTTATTCCCTTAAAAAAAAAAAAAAAAA

FIGURE 1264

MSFRGGGRGGFNRRGGGGGFNRGSSNHFRGGGGGGGNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVVLLGE
FLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKKLQKFYIDPYK
LLPLQRFLPRPPGEKGPPRGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGGGRGH

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FIGURE 1265

ATGCTGCTGAAAGAGTACCGGATCTGCATGCCGCTCACCCTAGACGAGTACAAAATTGGACAGCTGTACATGATC
AGCAAACACAGCCATGAACAGAGTGACCGGGGAGAAGGGGTGGAGGTCGTCCAGAATGAGCCCTTTGAGGACCCCT
CACCATGGCAATGGGCAGTTTACCGAGAAGCGGGTGTATCTCAACAGCAAACCTGCCTAGTTGGGCTAGAGCTGTT
GTCCCCAAAATATTTTATGTGACAGAGAAGGCTTGGAACATTATCCCTACACAATTACAGAATACACATGTTCC
TTTCTGCCGAAATTCTCCATTTCATATAGAAACCAAGTATGAGGACAACAAAGGAAGCAATGACACCATTTTCGAC
AGTGAAGCCAAAGACGTGGAGAGAGAAGTTTGCTTTATTGATATTGCCTGCGATGAAATTCAGAGCGCTACTAC
AAAGAATCCGAGGATCCTAAGCACTTCAAGTCAGAGAAGACAGGACGGGGACAGTTGAGGGAAGGCTGGAGAGAT
AGTCATCAGCCTATCATGTGCTCCTACAAGCTGGTGACTGTGAAGTCTGAGGTCTGGGGGCTTCAGACCAGAGTG
GAACAATTTGTACACAAGGTGGTCCGAGACATTCTGCTGATTGGACATAGACAGGCTTTGTCATGGGTGATGAG
TGGTATGACATGACAATGGATGAAGTCCGAGAATTTGAACGAGCCACTCAGGAAGCCACCAACAAGAAAATCGGC
ATTTTCCCACCTGCAATTTCTATCTCCAGCATCCCCCTGCTGCCTTCTTCCGTCCGCAGTGCGCCTTCTAGTGCT
CCATCCACCCCTCTCTCCACAGACGCACCCGAATTTCTGTCCGTTCCCAAAGATCGGCCCCGGAAAAAGTCTGCC
CCAGAACTCTCACACTTCCAGACCCTGAGAAAAAGCCACCCTGAATTTACCCGGCATGCACTCTTCAGATAAG
CCATGTCGGCCCCAAATCTGAGTAACTTTATATAAATATCTCATGGGGTTTATATTTTCATTTGTTGTTGTT
TTTTTTTAAGAATCTTCTGATAGAGAAAAAGACTGCTTTGTCACTCAAACATGTTTCCTTCGACCTTTCAGTG

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FIGURE 1266

MLLKEYRICMPLTVDEYKIGQLYMISKHSHEQSDRGEGVEVVQNEFFEDPHHGNGQFTEKRVYLSKLPSWARAV
VPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHETKYEDNKGSDNTIFDSEAKDVEREVCFIDIACDEIPERY
KESEDPKHFKSEKTGRGQLREGWRDSHPIMCSYKLVTVKSEVWGLQTRVEQFVHKVVRDILLIGHRQAFWVDE
WYDMTMDEVREFERATQEATNKKIGIFPPAISISSIPLLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPRKSA
PETLTLPDPEKKATLNLPGMHSSDKPCRPKSE

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FIGURE 1267

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCCGCTGCCGTCCCTGCTGCCTC**ATG**CGGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCAGAAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTTAATGTTTTGCGATTAATTCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAATATATCGGGTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTTACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTCTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGGTTGTCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTTCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAGACTCTCTTATGATAGAGTGTTTCAGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCTGGAAGCATATCTTCAGTGTGCCTTGAACCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTGCACAGGTTGTACTCCAGGATTTAGATAAAAAAGAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCT**TAG**TGTTTAGAGAAATCAAGAATTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGATTAAAAACTTTTTCAATGAACGTATATAAACTATGTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAA

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FIGURE 1268

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVLSGDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLRIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLVMEVNNGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRARF
ELLCSPLFNKCLEAIRGLLDQNGFTADDINKVVLCGGSSRIPKLQQLIKDLFPAVELLNSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSGTPLPARRQHTLQAPGSISSVCLELYESDGKN
SAKEETKFAQVVLQDLDDKKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1269

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTGAGTTGACA
CACCAGGCATTTTCGACACAGAGGTGCCCAATGTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGTTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAAATGTTTGAGAGAGGGGCTAGAAGTTTCATGATTCTCATATTCACCCGGAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGTTGAGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGCGGAGGAGGAGATCCAGAAGC
AAACACAAGCAATGCAAGAATCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAAGCAAAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCCCTTTATTTTGTACGTCGTTCGCGGAAGATTAATTAATGAAAAATCTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGCTCTCAGGCACCTCGTAATAAGGACCACCATTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTAATTTCTTCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCTTGTAGCTTCCACTCACTTATTCTTGCATTAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGGAGAAAGAAAGATCAATTTCTTGTGTCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCTAGATGAGTGTCAATTTATTTAATTCCATTGTCATATAAGGAGTCAAATTGTTTC
TTATCATTTGTTTCATTGAAGAACAGAGACCTGCTGGAAAATCGATCTCTACAAATTCATTAATAATGATCCC
CAAATGCTGAAAAAGTGAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTCAGCTGTATCTGTA
GAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTCTCTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACTTCTGCCCCACT
GCATTGAATTTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 1270

MAAQYGSMFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARFMI
LIFTRKDDLGDNLHDYLRAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCYTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRRKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 1271

AGTCGCCTGGAAGCGTCCGCCCAAGGTCGCGGGCCGCTTGGGGAGTCAGCAGCGCGCCAGGCCCTTCGGGCCCC
ACACGCATTAGGTGCCTTCTTGATGGGTACGGAGTGAACGCGGGCGGCGGGGACCGAGGCAGCGCCAGTTTG
TAACCGCCGCGCGCCCGTCCCGCGCGCGCCACACCCAGCGCGCTTCCGGCCGGGCCACGTGACCGCGCGTGC
ACGTGTTCCGGCCTCTCCGCTTCGCGCTCCGAACCTCCTCTGGTCTGTCGGGCATTCTGTCACGCGGAGCCGG
CTTGGGCGGGCCCGGGAGGCGGCGCGGAGAGCCGCGGAGACGCGAGCGCGGAGCGTCCGAGGGAGCAGGC
CCGGGCAGGCAAGCGCGGCGCTCCGCCATGAACCCAGGGGCTGTTCAGGACTTCAACCCAGTAAGTTTCTCA
TCTACACCTGCCTGCTGCTCTTCTCGGTGCTGCTGCCCCCTCCGCCTGGACGGCATCATCCAATGGAGCTACTGGG
CCGTCTTTGCCCCCATATGGCTGTGGAAGCTTCTAGTCGTGCGAGGCGCCTTCGTGGGCGCGGGCGTTTGGGCCC
GCAACCCTCGCTACCGCACCGAGGGAGAGGCCCTGTGTGGAGTTCAAAGCCATGCTGATCGCTGTGGGCATCCACC
TGCTGCTGCTCATGTTTGAAGTCTGGTCTGCGACAGGGTGGAGAGGGGCACCCACTTCTGGCTGCTGGTCTTCA
TGCTCTCTTCTTCGTGTCCCCGTGTCCGTGGCTGCCTGCGTCTGGGGCTTTGACACGATAGGTGCTGGAGC
TGAGATCCTGTGCTCGGTCAACATCCTGCAGTTCATCTTCATCGCCCTAAAGCTGGACAGGATTATTCAGTGGC
CGTGGCTGGTGGTGTGTGCCCCCTGTGGATCCTCATGTCGTTTCTTGCCTGGTCTCCTCTATTACATCGTCT
GGTCCCTCCTGTTTCTGCGGTCCCTGGATGTGGTTGCCGAGCAGCGGAGAACACACGTGACCATGGCTATCAGTT
GGATAACGATTGTGCTGCCTCTGCTCACTTTTGGAGTCTGCTGGTTCACAGATTGGATGGCCACAATACATTCT
CCTACGTCTCCATATTTGTCCCCCTCTGGCTTTTCTTACTAATTTAATGGCCACAACATTTAGGCGAAAGGGGG
GCAATCATTGGTGGTTTGGCATTGCGAGAGACTTCTGTCAGTTTCTGCTTGAAATTTTCCCATTTTAAAGAGAAT
ATGGGAACATTTTATATGATCTCCATCACGAAGATAGTGAAGATGCTGAAGAAACATCAGTTCCAGAAGCTCCGA
AAATTGCTCCAATATTTGGAAAGAAGGCCAGAGTAGTTATAACCCAGAGCCCTGGGAAATACGTTCCCCCCCCCTC
CCAAGTTAAATATTGATATGCCAGATTAACTCCTAGAGAGGACCCAGGCACACACAGACTCCACTTGGCCTTCG
CCTCTTGTTTATTCTCCCAAACCTGGAAATGGAAACAGGCTTCAAACACTCGTCTCACGCCGTGTTTGAGATCA
CCGCCATCAGTATGCATCATAGATGGAGATGGTTTTCAGTATGTGGGTGTGTGTGATGTGTACCTGGGTAAGAG
ACTTGCTTTCAGGTTTCGCACTTTTCAGGTGTAGCTGGGGCAGTAAGTCGAATTGTTTTAGTAGGTCTCAAAG
GAATAACCACACAGCTGTTTGTAAATGCTACTGTACCTATCAAACTATTGTTTTAAAAAGTATTTTATACAC
TGCTAATCTAAAATTGTATTTAGATTGTGCCTGTATACAATAGCAAATGTAAAAAGTTCAAAAAAAAAAAAA
AAAAAA

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FIGURE 1272

MLIAVGIIHLLLLMFEVLVCDRVERGTHFWLLVFMPLFFVSPVSVAACVWGFRHDSLELEILCSVNIQFIFIAL
KLDRIIHWPWLVVVPLWILMSFLCLVVLYYIVWSLLFLRSLDVVAEQRRTHVTMAISWITIVVPLLTFEVLLVH
RLDGHNTFSYVSIFVPLWLSLLTLMATTFRKGGNHHWFGIRRDFCQFLLEIFPFLREYGNISYDLHHEDSEDAE
ETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPKLNIDMPD

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FIGURE 1273

GTGTTTTCTGCGTGAGAGGAAAAGATGCTAGAACACAGGAGAATGGCGTGATTGACCTACCAGATTATGAGCAT
GTAGAAGATGAACTTTTCTCCTTTCCACCTCCAGCCTCTCCAGAGAGACAAGATGGTGAAGGAACTGAGCCT
GATGAAGAGTCAGGAAATGGAGCACCTGTTCTGTACCTCCAAAGAGAACAGTTAAAAGAAATATACCCAAGCTG
GATGCTCAGAGATTAAATTTAGAGAGAGGACTTCCAGCCTTAAGGCATGTATTTGATAAGGCAAAATTCAAAGGT
AAAGGTCATGAGGCTGAAGACTTGAAGATGCTAATCAGACACATGGAGCACTGGGCACATAGGCTATTCCCTAAA
CTGCAGTTTGAGGATTTTATTGACAGAGTTGAATACCTGGGAAGTAAAAGGAAGTTCAGACCTGTTTAAACGA
ATTGCACTTGATCTCCCTATTTTACATGAAGATTTTGTTAGCAATAATGATGAAGTTGCGGAGAATAATGAACAT
GATGTCACCTTCTACTGAATTAGATCCCTTTCTGACAACTTATCTGAAAGTGAGATGTTTGCTTCTGAGTTAAGT
AGAAGCCTAACAGAAGAGCAACAACGAAGAATTGAGAGAAATAACAACCTGGCCTTGGAAGAAGGCAGGCAAG
CTGCTGAGTAATAGTCAGACCCTAGGAAATGATATGTTAATGAATACACCCAGGGCACACCGTTGAAGAGGTT
AATACTGATGAGGATCAAAGGAGGAGTCAAATGGATTAACGAAGACATTCTGGACAATCCATGTAATGATGCT
ATTGCCAATACTTTAAATGAAGAGGAAACACTGCTGGACCAGTCTTTTAAAAATGTGCAACAGCAACTTGATGCT
ACATCCAGAAATATTACTGAAGCTAGATAAGTTTTCCATTAAGAGAAAATGTATCTGTTAAGTCATCGTCCTGCAA
GCTTGGCGTTACTATGTATTTTTCTTCTTGAGTGAAAATCCTTAGATAGTAAAACCTTTATAGATTATTGTTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MLEPQENGVIDLPDYEHVEDETFFPPFPPASPERQDGEGETEPDEESGNGAPVPVPPKRTVVRNIPKLD AQR L ISE
RGLPALRHVFDKAKFKGKGHEADLKMLIRHMEHWAHRLFPKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPIL
HEDFVSNNDEVAENNEHDVTSTELDPFLTNLSESEMFASELSRSLTEEQQRRRIERNKQLALERRQAKLLSNSQTL
GNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNPCNDAIANTLNEEETLLDQSFKNVQQQLDATSRNITEA
R

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FIGURE 1275

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCCGTCTTTCCGTGCCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCGGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCGAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCCGAGAGGCAGT
GCTTGGTGGCTACGATAACCAAGGAGGTACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTGAAGGGGCTGAGCCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCACTC
CAGTGACAAGACAGACTTGCAGCCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCAIGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCCAGGCCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCACT
TGGTTGTTTTCTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCCAGTCTGTCCCATCTGTTACCCATAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1276

MKQESAAPNTPTPSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDAFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLLEDHEGCTWGVAYQVQGEQVSKALKYLNREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGFQAQDEHLAAIVDAVGTMLPFCFCPTAQALALV

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FIGURE 1277A

TGAGGGAAGAAGAGGAAGCGGGAGGAGCTTGGCTTCTCGCGTATTTGAGGACAGCCCATCTCCCTTCAAGAACC
CTACGGAGAGTCGGACTGCATCTCCGAGCGAGCTCTTGGAGCGCCGCCGGGAGGCGAAGCATCGAGGCGG
CTCCGCGCGCCGGCTGCGGGGAGCGCTCCTGCTGTGGATTGTGAGCAGCTGCCTCTGCAGAGCCTGGACGGCTC
CCTCCACGTCCCAAAAATGTGATGAGCCACTTGTCTGTGGACTCCCCATGTGGCTTTCAGCAGCTCCTCCTCCA
TCTCTGGTAGCTATTCTCCCGGTATGCCAAGATAAACAGAGAGGAGGTGCTGGGGGATGGTCTCCATCAGACA
GCGACCATTATCAATGGCTTCAGGTTGACTTTGGCAATCGGAAGCAGATCAGTGGCATTGCAACCCAAGGAAGGT
ATAGCAGCTCAGATTGGGTGACCCAATACCGGATGCTCTACAGCGACACAGGGAGAACTGGAAACCCCTATCATC
AAGATGGGAATATCTGGGCATTTCCCGGAAACATTAAGTCTGACGGTGTGGTCCGGCAGCAATTACAGCATCCGA
TTATTGCCCGCTATGTGCGCATAGTGCCTCTGGATTGGAATGGAGAAGGTGCGATTGGACTCAGAATTGAAGTTT
ATGGCTGTCTTACTGGGCTGATGTTATCAACTTTGATGGCCATGTTGATTACCATATAGATTAGAAACAAGA
AGATGAAAACACTGAAAGATGTCATTGCCTTGAACCTTAAGACGTCTGAAAGTGAAGGAGTAATCTGCACGGAG
AAGGACAGCAAGGAGATTACATTACCTTGGAACTGAAAAAGCCAAGCTGGTCTCAGTTTAACTTAGGAAGCA
ACCAGCTTGGCCCCATATATGGCCACACATCAGTGATGACAGGAAGTTGCTGGATGACCACCACTGGCACTCTG
TGGTCATTGAGCGCCAGGGGCGGAGCATTAACTCAGTCTGGACAGGAGCATGCAGCACTTCCGTACCAATGGAG
AGTTTGACTACCTGGACTTGGACTATGAGATAACCTTTGGAGGCATCCCTTTCTCTGGCAAGCCCAGCTCCAGCA
GTAGAAAGAATTTCAAAGGCTGCATGGAAAGCATCAACTACAATGGCGTCAACATTACTGATCTTGCCAGAAGGA
AGAAATTAGAGCCCTCAAATGTGGGAAATTTGAGCTTTTCTGTGTGGAACCCCTATACGGTGCCTGTCTTTTCA
ACGCTACAAGTTACCTGGAGGTGCCCGGACGGCTTAACCAAGACCTGTCTCAGTCAGTTCCAGTTTAGGACAT
GGAACCCCAATGGTCTCCTGGTCTTCAGTCACTTTGCGGATAATTTGGGCAATGTGGAGATTGACCTCACTGAAA
GCAAAGTGGGTGTTACATCAACATCACACAGACCAAGATGAGCCAAATCGATATTTCCCTAGGTTCTGGGTTGA
ATGATGGACAGTGGCAGGAGTTGCTTCTAGCCAAGGAAAATTTTGTATTCTCACCATCGATGGAGATGAAG
CATCAGCAGTTGCAACTAATAGTCCCTTCAAGTTAAACTGGCGAGAAGTACTTTTTTGGAGGTTTTCTGAACC
AGATGAATAACTCAAGTCACTCTGTCTTCAAGCTTCAATCCAAGGATGCATGCAGCTCATTCAAGTGGACGATC
AACTTGTAATTTATACGAAGTGGCACAAGGAAGCCGGGAAGTTTCGCGAATGTGAGCATTGACATGTGTGCGA
TCATAGACAGATGTGTGCCAATCACTGTGAGCATGGTGGAAAGTGTGCTCGAAACATGGGACAGCTTCAAATGCA
CTTGATGATGAGACAGGATACAGTGGGGCCACCTGCCACAACCTCTATCTACGAGCCTTCTGTGAAGCCTACAAAC
ACCTAGGACAGACATCAAATTATTACTGGATAGATCCTGATGGCAGCGGACCTCTGGGGCCTCTGAAAGTTTACT
GCAACATGACAGAGGACAAAGTGTGGACCATAGTGTCTCATGACTTGCAGATGCAGACGCCTGTGGTCCGGCTACA
ACCCAGAAAAATACTCAGTGACACAGCTCGTTTACAGCGCCTCCATGGACCAGATAAGTGCCATCACTGACAGTG
CCGAGTACTGCGAGCAGTATGTCTCCTATTCTGCAAGATGTCAAGATTGTTGAACACCCAGATGGAAGCCCTT
ACACTTGGTGGGTTGGCAAAGCCAACGAGAAGCACTACTACTGGGGAGGCTCTGGGCCTGGAATCCAGAAATGTG
CCTGCGGCATCGAACGCAACTGCACAGATCCCAAGTACTACTGTAAGTGCAGCGCGGACTACAAGCAATGGAGGA
AGGATGCTGGTTCTTATCATACAAAGATCACCTGCCAGTGAGCCAAGTGGTGGTGGAGATACTGACCGTCAAG
GCTCAGAAGCCAAATTGAGCGTAGGTCTCTGCGCTGCCAAGGAGACAGGAATTATTGGAATGCCGCTCTTTCC
CAAACCCATCCTCCTACCTGCACTTCTCTACTTTCCAAGGGGAACTAGCGCTGACATTTCTTCTACTTCAAAA
CATTAAACCCCTGGGGAGTGTCTTGTGAAAATATGGGAAAGGAAGATTTATCAAGCTGGAGCTGAAGTCTGCCA
CAGAAGTGTCTTTTCAATTTGATGTGGGAAATGGGCCAGTAGAGATTGTAGTGAGGTACCAACCCCTCTCAACG
ATGACCAGTGGCACCGGGTCACTGCAGAGAGGAATGTCAAGCAGGCCAGCCTACAGGTGGACCGGCTACCGCAGC
AGATCCGCAAGGCCCAACAGAAGGCCACACCCGCTGGAGCTCTACAGCCAGTTATTTGTGGGTGGTGTGGGG
GCCAGCAGGGCTTCTGGGCTGCATCCGCTCCTTGAGGATGAATGGGGTGACACTTGACCTGGAGGAAAGAGCAA
AGGTCACATCTGGGTTCAATATCCGGATGCTCGGGCCATTGCACCAAGCTATGGAACAACTGTGAAAATGGAGGCA
AATGCCTAGAGAGATACCACGGTTACTCCTGCGATTGCTCTAATACTGCATATGATGGAACATTTTGAACAAAG
ATGTTGGTGCAATTTTGAAGAAGGGATGTGGCTACGATATAACTTTCAGGCACCAGCAACAAATGCCAGAGACT
CCAGCAGCAGAGTAGACAACGCTCCCGACCAGCAGAACTCCCACCCGGACCTGGCACAGGAGGAGATCCGCTTCA
GCTTCAGCACCACCAAGGCGCCCTGCATCTCTCTACATCAGCTCCTTCACCACAGACTTCTTGGCAGTCTCTG
TCAAACCCACTGGAAGCTTACAGATTGATACAACTGGGTGGCACCCGAGAGCCATACAATATTGACGTAGACC
ACAGGAACATGGCCAATGGACAGCCCCACAGTGTCAACATCACCCGCCACGAGAAGACCATCTTTCTCAAGCTCG
ATCATTATCCTTCTGTGAGTTACCATCTGCCAAGTTCATCCGACACCCTCTTCAATCTCCCAAGTCGCTCTTTC

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FIGURE 1277B

TGGGAAAAGTTATAGAAACAGGGAAAATTGACCAAGAGATTCACAAATACAAACCCCCAGGATTCACTGGTTGCC
TCTCCAGAGTCCAGTTCAACCAGATCGCCCCCTCTCAAGGCCGCTTGAGGCAGACAAACGCCCTCGGCTCACGTCC
ACATCCAGGGCGAGCTGGTGGAGTCCAACCTGCGGGGCTCGCCGCTGACCCTCTCCCCATGTCGTCCGCCACCG
ACCCCTGGCACCCTGGATCACCTGGATTGAGCCAGTGGGATTTTCCATATAATCCAGGACAAGGCCAAGCTATAA
GAAATGGAGTCAACAGAACTCGGCTATCATTGGAGGCGTCATTGCTGTGGTGATTTTACCATCCTGTGCACCC
TGGTCTTCCTGATCCGGTACATGTTCCGCCACAAGGGCACCTACCATAACCAAGCAAGGAGGGGGCGGAGTCGG
CAGAGAGCGCGGACGCCGCCATCATGAACAACGACCCCACTTCACAGAGACCATTGATGAAAGCAAAAAGGAAT
GGCTCATTGAGGGGTGGCTACTTGGCTATGGGATAGGGAGGAGGAATTACTAGGGAGGAGAGAAAAGGACAAA
AGCACCCCTGCTTCATACTCTTGAGCACATCCTTAAATATCAGCACAAAGTTGGGGGAGGCAGGCAATGGAATATA
ATGGAATATTCTTGAGACTGATCACAACAAAAAATCCTTTTAAATATTCTTTATAGCTGAGTTTTCCCTT
CTGTATCAAAACAAAATAATACAAAAATGCTTTTAGAGTTTAAAGCAATGGTTGAAATTTGTAGGTACTATCTGT
CTTATTTTGTGTGTTTATAGAGGTGTTCTAAAGACCCGTGGTAACAGGGCAAGTTTCTACGTTTTTAAGAGCCC
TTAGAACGTGGGTATTTTTTTCTTGAGAAAAGCTAATGCACCTACAGATGGCCCCAACATTCTCTCTTTTG
CTTCTAGTCAACCTTAATGGGCTGTTACAGAACTAGTTCGTGTTTATATACTATTTCTTTTGATGTCTATAAG
TCGAAAAGAAAGGGGCAAGAGAACCTATTATTGCCAGTTTTTAAGCAGAGCTCAATCTATGCCAGCTCTCTG
GCATCTGGGGTTCTGACTGATACCAGCAGTTGAAGGAAGAGAGTGCATGGCACCTGGTGTGTAACGACACAATC
AGCACAACCTGGAGAGAGGCATTAAAGAACCAGGGAAGGTAGTTTGATTTTTTCATTGAATCTACAAGCTAATATT
GTTCCACGTATGTAGTCTTAGACCAATAGCTGTAACCTATCAGCTGCAATACCATGGTGACCAGCTGTTACAAAAG
ATTTTTCTCTGTTTTATCTGAACATACTGGATTATATATGTATAAGCGCCTCAATGGGGAATTAGAGCCAGAT
GTTATGATTTGTTTGCTCTTTTTCTTTATAGTTATAGCAAAAATATGGATAATTTCTAGTGAATGCATAAATTA
GGTTGCGTTTTCTATTTTGCTTTAAATCTCTGGTAGTTTTTCCACCCCTGTGACACAATCCTAATAGACAGTGTC
CTGTAATAGGACACAACACAATAAAGTCAAGTTATTATTGCTGTACTCTGGATGATATGGAAAACACTGCCATA
TTTTAAATCAACTACTCCACGTGTTTTTCCATCCAATCACACTGCTGTGATTGAGGATCTTTCTCTAAAACGG
ACACATTTGAACCTCAGGTTTCATCACAACCTGGTACCTGTTGCTTCCCAGAGGATGGAGAAGTGTAGTTAATCA
CACCTCTTAGTTTTAATCTGAAATCTTGACCCAGTTATTTAACAATAAATACCTCATTGATTATTTAAAAGTA
ATACACTTCTGTAAACAAATGGGGACAATGCATCCAAAAATCTTTTTAAACAGATTACACAAAATTTATTTCC
AGAAAGGCTACCATTATCATCATTATATTTCAAGCCTCTTATACTTAATAAGCACTTTCTAAAAGTCTTGAGA
TCCCACCATTCTGAGGAATTCATATGATCATTCTTTCTCTTGCCTGGGAGAGGTTAAGAGGCGGTTTTCGAA
GGTATAGATGCTATTGTTCTGATGGCCCGCTGAATAAAATGGAAATTTCTAGTTTGTTAGAATTATGCATTCTTT
TTCAAGATTCTCAGTGTGCCTAACTTATTGGAGCACATCAGTTTCTTGGGTAATGGAAAACATTACCTAGAGTTG
CCAGTGGCACATTACACCAGTACAGAGCACATTCCAAGGAGACATTGGACCAGTTAATTTCCCATACAAGTCAAG
GTAACAGAACAAAAGGGAATCCTGATGCCCTTTTACCATTGCTGGTTGAGCTCAGGCACCTGTCATGGACACCCCTT
AATTTTAAAAGGTTTTAATCATTCTCTATAAAATACATTTAAAATGGAAAATACTTAATATCACTAAATATCA
GAACAAATGTAACATTACAAATGACATATTGAAAGCAAAGGCTGTTTTATTTAGCCAAGATGATTACCATTAGGA
GTTACTTTATGATTGTTGAAAGCAAATTTTAAACATGATGTTTTAGAAGTGTTCGATTTTTAAACCTGGTTT
ACAGGTATTACTTCTGCATTACCAATAATGCCAGATGGAAATTTATTATTTCTGCAATTTCCCGTGATAGCTC
TGTTCTTTATGCATTGTCTCAACACTTTCCCTTTTTTCCCAAAATGAGTAGAGAATTAAAGCCACCCAAAACAGC
TTCTGCTACTAAAATGTTCTCATCCTTTCTCCTCCCTCTCCTTTTCTGCCACAAAAGGTGAAAAATGAGATCCA
ATCCTCTCACAAAATTTCAAACCTAGGACACTGGAATGACTGCAGGGATCAGTGGTCTCCCATATCACCATCA
ATTAAGACATATAGGACACTGTCTTCCCTCAAGAGGGTTACAATGTGGCCATCAGACAGGAAACCAACGGTGGA
TAAAGTATTAAGTAACTAAGTGCCAAATAAATGCTGGAAATCTTGACCTCTCCTTGGGATTATGGGTGTAACAAA
AATCCCTACATCTGTTTATGAAGGCCATATTCAGTACATTTTAAATGGTAAATAATCTGTTTATGTGAAGAAAA
GAATTAAGTCTTTCTTCCAACCTCTCTCCTTGGATAGCCTAGCACAGTGCAGCCTCCATAACCATGACATTCCCGC
CCAAGCTCTCAGTGCCTAATCCTGCTTTGTCACTTCACATCTCACAAAATCTTGACATCTTACATTCCAATACATT
ATCAAGCAAGCACAAAGTATGCTGGTAGTAGCCTCTTTAAATAATATGTATAGACAACAACAACGACAAAAAATAG
ACTGTTTTAAAGTTTCAGGGAAAGTTGGTGGCTGATTTAAAGTTGTGCAGGAAACATCTTCTGTGTATGAAGCAA
ATGTCGATGTTTTGAAAAGCTAGGAGATGACTTTGAATGAATGCAAGGTTAGTGAGATCCTAAGCTCTCAAATA
GCATATTCCTAGAGCTCAAGAAAGCTGGTCCAGGAGGTTGAAAAGCTATTTTGTGTAAATTATTTCTGGC

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FIGURE 1277C

CCTTCTTAATATTTAAAAATGTATTTCCCTTGTGGCTTTCAACCACCTGCTCAAAAAAGAGACTTGTTACATG
AAAGTTTTTCATTAAAGAGCTGAAAACAAGAATTTAGAGAGCCATTCCCTAGAAAATGTCCTACTGCCCTGCATTG
ACAAACAAGCATCCTTTACTAACAAGAGCAGGAATTCAGAGGCACAAGAAAAAGCATTGGCATGAGCCAAAGAGT
CTGTCTTAATGTTACTTTTGAAAATCTGCTGAGCGGCCACCATATGCAGGCTGAGAGCTGGGCACAGGCGAAGCC
ATTGGAAGCACTTCAGGAACAAGCACACAGCTGTGGGACTTGAACATGCAAGTGTTTCAGGTGTGTCAAGAAGCT
TTTCTTTCCTTCTATGATGGAATCTGTTCTTTTCTATCCTACTTTTTTCTCTCTTCTCCTCCTCACCACATTATA
CCCTGCTCTTACGCAGTAAACGTTTTAATGGCCCGTTTATGTCTCATGCCTCCAAACAACACTGAATTTGAAACC
CCCCATTTTTTCTTTTCACCACCCTGTTGAGCAATTTTCCCAAAAAAGGGCAGCAATTATTAATTGAATTCAA
GTTTCTAGATTTTACTAAGTTTTATTTTGTGAGGTTTTTTAAATTTTTTCAGTGAGCGTGGTGAAGTGCAGAGGTT
AGTGCTGTGAAAAGCTGGGCTAAATATTCTTTCTGTAAAGTCAAACAGGATTCCATCCCTGTGAAATAACACAA
AATTTCACTCTCTAAAAGCAACAGCATGTAACTAGAAAGAAAGGAAATTATGTACGTATGCCTAATATTCT
TTGTGAATGTCTTTTCACTTAACTAAATTATATTAGAAACCAGATTGATAAATAAAAAATTCAAAGTAGTTTTAA
TTATCCT

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FIGURE 1278

MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDEPLVSGLPHVAFSSSSSISGSYSPGYAKINKRGGAGGWS
PSDSHDYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYHQDGNIAWAFPGNINSDGVVRHEL
QHP I IARYVRIVPLDWNAGEGRIGLRIEVYGCSYWADVINFDPGHVVLPRFRNKKMKTLKDVIALNFKTSESEGI
LHGEGQQGDYITTELKKAKLVLSNLGSQLGPIYGHTSVMTGSLDDHHHWSVVIERQGRSINLTDRSMQHF
TNGEFDYLDLDYEITFGGIPFSGKPSSSSRKNFKGCMESINYNGVNITDLARRKKLEPSNVGNLSFSCVEPYTVP
VFFNATSYLEVPGRLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVGHVHINITQTKMSQIDISSG
SGLNDGQWHEVRFLAKENFAILTIDGDEASAVRTNSPLQVKTGEKYFFGGFLNQMNSSSHSVLQPSFQGCMLIQ
VDDQLVNLVEVAQRKPGSFANVSIDMCAIIDRCVPNHCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCE
AYKHLGQTSNYYWIDPDGSGPLGPKVYCNMTEDKVWTIVSHDLQMOTPVVGYNPEKYSVTQLVYSASMDQISAI
TDSA EYCEQYVS YFCKMSRLNTPDGSPYTWVVGKANEKHYYWGGSGPGIQKACACGIERNCTDPKYCNC DADYK
QWRKDAGFLSYKDHLFVSQVVGDTDRQGSEAKLSVGPLRCQGDRNYWNAASFNPSSYLHFSTFQGETSADISF
YFKLTLPWGVFLENMGKEDFIKLELKSATEVSFSFDVGNPVEIVVRSPTPLNDDQWHRVTAERNVKQASLQVDR
LPQQIRKAPTEGHTRLELYSQLFVGGAGGQQGFLGCIRSLRMNGVTLDLEERAKVTSGFISGCSGHCTSYGTNCE
NGGKCLERYHGYSCDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPATNARDSSSRVDNAPDQQNSHPDLAQEE
IRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLGGTREPYNIDVDHRNMANGQPHSVNITRHEKTIF
LKLDHYPVSYSYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNQIAPLKAALRQTNAS
AHVHIQGELVESNCGASPLTSPMSSATDPWHLHDHLSASADFPYNPGQGQAIRNGVNRNSAIIGGVIAVVIFTI
LCTLVFLIRYMF RHKGTYHTNEAKGAESAESAADAAIMNNDPNFTETIDESKKEWLI

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FIGURE 1279

AAAAACAACCATTTCTCTGCTGAGAGCCAGGGAAGGCGAGCTCTGCGCACACGGGCGTCCCTGCAGCAGCC
ACTCTGCTTTCCAGGACCGGCCAACTGCCCTGGAGGCATCCACACAGGGGCCAGGCAGCACAGAGGAGCTGTGA
ACCCGCTCCACACCGGCCACCCTGCCCGAGCCTGGCACTCACAGCAGGCCGGTGCTAAGGAGTGTGGCGCGGGC
TCGACTCCCACTGCTGCCGGCCTCCCGAGTGACTCTGTTTTCCACTGCTGCAGGCGAGAAGAGGCACGCGCGGCA
CAGGCCGGCCTCCGCTTCCCGGAAGACGGCGCACTCCTGGCCCTGGGTCTTGCTGCTGCCACCCTCTGCTCC
CTGGGATGGGCCCCGAGGCGAGCAGCTTCAGCACAGGCCTGGCCCTGCTCCAGGTGCAGGAAGGAGGATAAGGCC
GGGCGAGAGGCGGCACACCTGGACCATCCCATGGGCCCTCCGCCCGCGCCCGGAGGATGAGTGGTGATGTCC
TCTAGCCACCCCTAGCAGCGTCGGCTCTCCCTGGACGTGCGGCCGCGGACTGGGACTTGGCTTTCTCCGGATAAG
CGGCGCACCGGCGTCAAGCATGACCGTGCAGAGACTCGTGGCCGCGGCCGTGCTGGTGGCCCTGGTCTCACTCA
TCCTCAACAACGTGGCGGCCTTACCTCCAACCTGGGTGTGCCAGACGCTGGAGGATGGGCGCAGGCGCAGCGTGG
GGCTGTGGAGGTCTGCTGGCTGGTGGACAGGACCGGGGAGGGCCGAGCCCTGGGGCCAGAGCCGGCCAGGTGG
ACGCACATGACTGTGAGGCGCTGGGCTGGGGCTCCGAGGCAGCCGGCTTCCAGGAGTCCCGAGGCACCGTCAAAC
TGCAGTTCGACATGATGCGCGCCTGCAACCTGGTGGCCACGGCCGCGCTCACCGCAGGCCAGCTCACCTTCCTCC
TGGGGCTGGTGGCCCTGCCCTGCTGTCAACCGACGCCCCGTGCTGGGAGGAGGCCATGGCCGCTGCATTCCAAC
TGGCGAGTTTTGTCTGGTCACTGGGCTCGTGACTTTCTACAGAATTGGCCATACCAACCTGTCTGTGCTCTG
CTACCTGGAACATTGGCGCCTGCCTTCTGGCCACGCTGGCGGCAGCCATGCTCATCTGGAACATTCTCCACAAGAG
GGAGGACTGCATGGCCCCCGGGTGATTGTCATCAGCCGCTCCCTGACAGCGCGCTTTCGCCGTGGGCTGGACAA
TGACTACGTGGAGTCACCATGCTGAGTCGCCCTTCTCAGCGTTCCATCGATGCACACCTGCTATCGTGGAACAGC
CTAGAAACCAAGGGACTCCACCACCAAGTCACTTCCCCTGCTCGTGCAGAGGCACGGGATGAGTCTGGGTGACCT
CTGCGCCATGCGTGCGAGACAGTGTGCGTTTACTGTTAIGTCGGTCATATGTCTGTACGTGCTGTTGGGCCAACC
TCGTTCTGCCTCCAGCTTTCTGGTTAGCGCAACGCGGCTCCACGACCACACGCACTTCAGGGTGGAAGCTGGAA
GCTGAGACACAGGTTAGGTGGCGCGAGGCTGCCCTGCGCTCCGCTTTGCTTTGGGATTAATTTATTCTGCATCTG
CTGAGAGGGGCACCCCAGCCATATCTTACACTTTGGTAAAGCAGAAAACCAGGAAAATTTCTTAAAATATCCAC
AATATTCTTGAGTGAGTCAGAATCTATAGCCGGTTAGTGATGGTTTCAGGCAGAATCGTGTTCGTGCTGTTTT
GCTCGATTCTTTCTTAAGTTAAATAAATGAAGCCTCTGAACTTCTGTCTATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTTRGGPSPGARAGQVDAHDCEA
LGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLGLVGLPLLSPDAPCWEEAMAAAFQLASFVLV
IGLVTFYRIGHTPTCPGPAT

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FIGURE 1281

GCCCGCCCGCGCCCCGACCGCCCGGCTCGGGCAGCCACTCACCGGTGTCCCCGTCCGCGTCCTTCCTCCCCGG
GTCCCGGCC**ATG**GCGCTGAGTGAACCCATCCTGCCGTCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCCTGGGCGCGGAGGCCGCCCCGGAGCCGCGCGCCGCCGCCCTGCG
TTCTATTACCCCGAACCCGGCGCGCCCCCGCCCTACAGCGCCCCCGGGGTGGCCTGGTGTCTGAGCTGCTGCGA
CCCCGAGCTGGATGCGCCGTGGGGCCCGCACTGCACGGCCGCTTTCTGCTGGCGCCGCCCGCGCCCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGCGCGGCTACGGCTGCGCCCCCGGGGTGACCCGTGGACCGCGCGGCCCTC
AAGCGCGAGGGCGCCCCGGGCGCGCGGCTTCGTGCATGCGAGGTCCCGGGGGCCGCCGCCCGCGCGCCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCTTTC
GGTGGCCCTGGTTTCGGCGCGCCCCGGGCGCGCCTGCATTACGCGCGCCCTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGCGCCGCCCGCGCGCAGCCCTGGGCTGGCGCCCCCGCGCGCCCGGTCTCCTCACGCCGCTGCG
TCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCCGCGCTCTTGGCCCCGCAAACGCAACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGC GCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATG**TAG**CCGGGACGCCCCCGCCACCTGCGGCGGGCCGTGGCGGGTCCACGCG
CCGGGCGCGGCCCTCCCAAACCTGTGACTGGTATTTATTGGACCCAGAGAACCGGGCCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCAGCCCCGTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTACTGACAAATATTGTATTACTGTACATAGAGAGACAGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTGGTTTTTTTTTAATTAAAAAGTTTTGCATCTTT

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FIGURE 1282

MALSEPILPSFSTIFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEEAPEPPPPPPPAFY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRLVKAEPPEADGGGGYGCAPLTRGPRGLKRE
GAPGPAASCMRGPGRPPPPDTPPLSPDGPARLPAPGPRASFPPFGGPGFGAPGPGGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRHTGK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 1283A

GGTCCCCGGCTGCCCGCAGCCCGCTCGCGGCGCTTCTCCGGCCCGGCTCCTTCTCCGCTCGTTAACGTCGCCAAC
CCCCCCCCACCCCTCATATCTCTCTCCACCCACCCAACCGCCCCCGCTCCTTCTCGCCGCTCGAGTCCGCTTGG
GGGAAAACCTTCAAAGAGCCGGATCGCAGGCTCCCTGCCTACTCCCCACCGGGGATTTCAGACTAGACGCTTGAA
GCAAAGCTGCCATCCCAAGACGACATGCTCTCAGCAACCCCCCTGTATGGGAACGTTACAGCTGGATGAACA
GCGAGAGGGTCCGCATGTGTGGGGCGAGCGAAGACAGGAAAATCCTTGTAATGATGGTGACGCTTCAAAAGCCA
GACTGGAACCTGAGGGAAGAGAATCCCTTGAACCACAACGTGGTGGATGCGAGCACGGCCATAGGATCGATGGCC
TGGCAGCACTGAGCATGGACCGCACTGGCCTGATCCGGGAAGGGCTGCGGGTCCCGGAAACATCGTCTATTCTA
GCTTGTGTGACTGGGCTCAGAGAAAGGTGGGAGGCTGCCACAAGCACTCTAGGTGGCCTTGGGTTTTCTTCGG
AAAGAAATCCAGAGATGCAGTTCAAACCGAATACACCCGAGACAGTGGAGGCTTCTGCCGTCTCTGGAAAACCC
CAAATGGCTTCAGTGCTATATACAAAACACCGCTGGAATACAAAAAGTGCTGTAGCCACAGCAGAAGCGCTGG
GCTTGGACAGGCTGCCAGCGACAAACAGAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TCAATCCTTACATGGAGGGTGCCACGCCAGCCATCTACCCTTTCTCGACTCGCCAAATAAGTATTCACTGAACA
TGTACAAGGCTTGCTACCTCAGCAGTCTACAGCTTGGCCAGCCGCTGTATTCTCCAGTCTGCACCAATGGGG
AGCGCTTTCTCTACCTGCCGCCACCTCACTACGTCGGTCCCCACATCCCATCGTCTTGGCATCACCCATGAGGC
TCTCGACACCTTCGGCTCCCCAGCCATCCCGCTCTCGTCCATTGCGCAGACAAAAGCTCCCGTGGAAGATGG
GCGTCAGCCCTGGGAATCCTGTTGATTCCCACGCCTATCTCACATCCAGAACAGTAAGCAGCCCAGGGTTCCT
CTGCCAAGGCGGTACCCAGTGGCCTGCCGGGGACACAGCTCTCTGTGCCCCCTCGCTCGGCCGTACCCC
GAGTCCACCTTCCCACCCAGCCTGCTGCAGACACCTACTCGGAGTTCCACAAGCACTATGCCAGGATCTCCACCT
CTCCTTCAGTTGCCCTGTCAAAGCCATACATGACAGTTAGCAGCGAGTTCCCCGCGGCCAGGCTCTCCAATGGCA
AGTATCCCAAGGCTCCGGAAGGGGGCGAAGGTGCCAGCCAGTGCCCGGGCATGCCGGAAGACAGCGGTTCAG
ACAGAAAAGACGGCAGCTACCTCCTCTGTTGGAGAAGCAGACCGTTACCAAAGACGTACAGATAAGCCACTAG
ACTTGTCTTCAAAGTGGTGGATGTAGATGCTTCAAAGCTGACCACATGAAAAAGATGGCTCCCACGGTCTCTGG
TTCACAGCAGGGCTGGAAGTGGCTTAGTGCTCTCCGGAAGTGAGATTCCGAAAGAAACACTATCTCCTCCAGGAA
ATGGTTGTGCTATCTATAGATCTGAAATCATCAGCACTGCTCCCTCATCTGGGTGGTGCCCGGGCCAAAGTCTTA
ACGAAGAGAACAAATGGCAAAGCATGTGCTGAAAAACAAGGCATTGGACTGGGCGATACCACAGCAGCGGAGTT
CATCATGCCCGCGCATGGGCGGCACCGATGCTGTCTACTAACGTTTCAGGGTCAGTGTGAGTGCAGGCCGCC
CAGCCTCCGCATCACCCGCCCAATGCCAATGCAGATGGCACCAAAACCAGCAGGAGCTCTGTAGAAACCACAC
CATCCGTTATTACGACAGTGGGCCAGCCCCCGGCCACTCTGCCAAGCACAGTAGCAGCACCAGCAGCAAGGGCG
CCAAAGCCAGCAACCCAGAACCGAGTTTCAAAGCAAACGAGAACGGCCTTCCACCAAGCTCTATATTTCTGTCTC
CAAATGAGGCATTACAGTCCCCACCAATTCCCTACCCAGGAGTTACCTCCCTTACCCAGCCCCCTGAGGGCATTG
CTGTAAGTCCCTCTCCTTACATGGCAAAGGACCTGTCTACCCTCACCCAGTTTTGTTACCCAATGGCAGTCTGT
TTCCITGGGCACCTTGCCCCAAAGCCTGGGCTGCCCTATGGGCTTCCCACCGGCCGTCCAGAGTTTGTGACCTACC
AAGATGCCCTGGGGTTGGGCATGGTGCATCCCATGTTGATACCACACACGCCCATAGAGATTACTAAAGAGGAGA
AACCAGAGAGGAGATCCCGGTCCCATGAGAGAGCCCGTTACGAGGACCCAACCCCTCCGGAATCGGTTTTCCGAGA
TTTTGGAACTAGCAGCACCAAGTTACATCCAGATGTCCCCACCGACAAGAACCTAAAGCCGAACCCCAACTGGA
ATCAAGGGAAGACTGTTGTCAAAGCGACAAGCTTGTCTACGTAGACCTTCTCCGAGAAGAACCAGATGCTAAAA
CTGACACAAACGTGTCAAACCCAGCTTTCAGCAGAGAGTGTGGCCAGAGCGCTGAGCCCCCAAGCCCTCAG
TTGAGCCGGCCCTGCAGCAGCACCGTGATTTCATCGCCCTGAGAGAGGAGTTGGGGCGCATCAGTGACTTCCACG
AAACTTATACCTTCAAACAGCCAGTCTTACCCGTAAGCAAGGACAGTGTTCTGGCAGGTACCAACAAAGAGAACC
TAGGGTTGCCAGTCTCGACTCCATTCTGGAGCCACCTCTGGGGAGCGATGGCCCTGCTGTAACCTTTGGTAAAA
CCCAAGAGGATCCCAAACCATTTTGTGTGGGCAGTGCCCCACCAAGTGTTGGATGTGACCCCCACCTATACCAAAG
ATGGAGCTGATGAGGCTGAATCAAATGATGGCAAAGTTCTGAAACCGAAGCCATCTAAGCTGGCAAAGAGAAATCG
CCAATCAGCGGTTACGTGGGTGACCGATTCAAATGTGTCTACTACCGAACTGTATGCAGATTCCAGTCAGTCA
GCCGGGAGCAACGGGCATTGCAGATGGAAGGATTACAAGAGGACAGTATTTTATGTCTACCCGCTGCTTACTGTG
AGCGTGCAATGATGCGCTTCTCAGAGTTGGAGATGAAAGAAAGAGAAGGTGGCCACCCAGCAACCAAAGACTCCG
AGATGTGCAATTCAGCCAGCCGACTGGGAAAGGTTGAAAGGAAATCAGGACAAAAAGCCAAAGTCGGTCACCC
TGGAGGAGGCCATTGCAGAACAGAACGAAAGTGAGAGATGCGAGTATAGTGTGAAACAAGCACCGTGATCCCT
TTGAAGCCCCAGAGGACAAAGATCTTCTGTGGAGAAGTACTTTGTGGAGAGGCAGCCTGTGAGCGAGCCTCCCC

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FIGURE 1283B

CAGACCAGGTGGCCTCGGACATGCCTCACAGCCCCACCCTCCGGGTGGACAGGAAACGCAAAGTCTCAGGTGACA
GCAGCCACACTGAGACCACTGCGGAGGAGGTGCCAGAGGACCCTCTGCTGAAAGCCAAACGCCGACGAGTCTCTA
AAGGGCTCCATCCTAAAAACAACGCCACTTGCTGCACCTTAGAGAACGATGGGAGCAGCAGGTGTCCGCAGCAG
ATGGCAAACCTGGCCGGCAAAGCAGGAAGGAAGTGACCCAGGCCACTCAGCCTGAGGCCATTCTCAGGGGACTA
ACATCACTGAAGAGAAACCTGGCAGGAAAAGGGCAGAGGCCAAAGGCAACAGAAGCTGGTCCGAAGAGTCTCTTA
AACCCAGTGACAATGAACAAGGCTTGCTGTGTTCTCCGGCTCTCCGCCATGAAGAGTCTTTTCATCCACCAGTG
CAGGCGGCAAAGCAGGCTCAGCCAAGCTGCGCACCAGCCTCCAGGCCGCTGCCAAACAGCAGAAAATTAAAG
AAAACCAGAAGACAGATGTGCTGTGTGCAGACGAAGAAGAGGATTGCCAGGCTGCCTCCCTGCTGCAGAAATACA
CCGACAACAGCGAGAAGCCATCCGGGAAGAGACTGTGCAAAACCAAACACTTGATCCCTCAGGAGTCCAGGCGGG
GATTGCCACTGACAGGGGAATACTACGTGGAGAATGCCGATGGCAAGGTGACTGTCCGGAGATTAGAAAAGCGGC
CGGAGCCCAGTTCGGACTATGATCTGTACCAGCCAAGCAGGAGCCAAAGCCCTTCGACCGCTTGACAGCAACTGC
TACCAGCCTCCCACTCCACACAGCTGCCATGCTCAAGTTCCCCTCAGGAGACCACCCAGTCTCGCCCTATGCCGC
CGGAAGCACGGAGACTTATTGTCAATAAGAAGCTGGCGAGACCCTTCTGCAGCGGGCAGCCAGGCTTGCTATG
AGGAAGTGGTCTGTACTGCTTAGAGAACAAGATTTGTGATGTAAATCATCGGGACAACGCAGGTTACTGCGCCC
TGCATGAAGCTTGCTAGGGGCTGGCTCAACATTGTGCGACACCTCCTGAATATGGCGCTGATGTCAACTGTA
GTGCCCAGGATGGAACAGGCCTCTGCACGATGTGTTGAGAACGATCACTTGAAATGTCCGACTACTTCTCT
CTTATGGTGTGACCCACCTTGGCTACGTACTCAGGTAGAACCATCATGAAAATGACCCACAGTGAACCTATGG
AAAAGTTCTTAACAGATTATTTAAATGACCTCCAGGCTCGCAATGATGATGACGCCAGTGGCACTTGGGACTTCT
ATGGCAGCTCTGTTGTGAACCAGATGATGAAAGTGGCTATGATGTTTTAGCCAACCCCCCAGGACCAGAAGACC
AGGATGATGATGACGATGCCTATAGCGATGTGTTTGAATTTGAATTTTCAGAGACCCCCCTCTTACCGTGTATA
ACATCCAAGTATCTGTGGCTCAGGGGCCACGAAACTGGCTACTGCTTTCGGATGTCCTTAAGAAATTGAAAATGT
CCTCCCGCATATTTGCTGCAATTTTCCAAACGTGGAAATTGTCACCATTGCAGAGGCAGAAATTTATCGGCAGG
TTTCTGCAAGTCTCTTGTCTCTTGTCTCAAAGACCTGGAAGCCTTCAACCCTGAAAGTAAGGAGCTGTAGATC
TGGTGGAATTCACGAACGAAATTCAGACTCTGCTGGGCTCCTCTGTAGAGTGGCTCCACCCAGTGATCTGGCCT
CAGACAACACTACTGGTGAGCAAGCTGGACCCACCATGTACAGTGTGTTATAGTGTAAATCCTTGTGCATATGTGTC
ATAATACAACATATTTCTGTAAAGAAAGGACACTATTACATATGAAAATATCTCTTCTTTATATAAGAGAAATTAC
TCCAGTCAGAAGGACTTAGAAACATGTTTTTTCCTTTTAAACTTTTAAGTCAGTTTTATGAAGTTGTTATAAT
GTTTCTTTACTTTTCAATGCACACATGCTTTGGGATACGTTTGTGTTTTACTTGGAACATTGTTTCTTTCTTTT
TTAAGGAGAAAAAAATGAGTAAAGGAGCTCCACACTTTGACTTAATTTTCATACAAAGCTCTGATGACAGGCC
ATGACTGTAGAGTGGTCAGAACGTGTGTTGGTTGGTTGAGGGAGCGAATTCGGGGAAGGCACTTGGTGATATAACT
TTGTTTTGTTTACAGAGTACCTGCTCGGGCCAGGTAAATGCTATTGGATGTAATCCAGTAGTGTGTAATATAAAT
TCAAACCATATCCACACACAACAATAATTGTATGAACTTTTATATCCTAATTTAAAGCTGTGAAATTAGTTT
TCACGCATCAAACCGGATTGTTTATATGTTTAAACATTTTATGCTCTTATTTAAAGAAGACTTTGAGCTATTTTT
TTCTGTACCCTGTAAATATTGAAAATAACATAATATGTTGAGGTTGCTTGGAATGTACATAAACTAAAAAT
TTCTGAATCGTGAATAAAAAAAAAAAAAAAAAA

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FIGURE 1284

MPPEARRLIVSKNAGETLLQRAARLGYE EVVLYCLENKICDVNHRDNAGYCALHEACARGWLNIVRHLLLEYGADV
NCSAQDGTREPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMTHSELMERFLTDYLN DLQGRNDD DASGTW
DFYGSSVCEPDDESGYDVLANPPGPEDQDDDDAYS DVFEFEFSETPLLPCYNIQVSVAQG

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FIGURE 1285

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCGAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCGCGCTCCGAGGTCCCCGGGCCTCTGTCTCCGGGCGTCTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTTCGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGGCCCGAGCAGTGTGTTGGTGTGAAATGTTTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACATTTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCAGCCAGTGTCTGCTTCACTTTATTACAAAAGGCTATGTCATTGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGAGAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTTATGACAAAGAAGAATTTATTTGTATATGG
AAGAAACAGTGAAGAGAAACGGCATAAAGATGACAAATGAGCCTATTTGTTAGTGTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTAAATTTCCAGAGAATGATGTTTGTATAATAAAACAAGCTATGTTGAAAACCAAATGTAGT
ATCTACCATTGCTGTTTTAGAAAGGTATGTGAATAAATATGTTTCATGCTAGTATAAGAGTTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTTCTA
AGTGTATAAATATTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTTCCAGATGAGAAATCCACAAGCGACTCATTGACTTGCGCAGTCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTCATAAATTGATTACAGTTGTTAAAAAATTTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCATGAGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTTCAAAAAA

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FIGURE 1286

MARAVFGVKCFSYSTSLIGLTFILPYIFTQNNaisesvPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 1287A

TTGGGAAACCCCTACCTGTCTGTACCTGTAGGTCTTTTCTCTGGGGTCTGGAAGAAGAAATCCTTCAATATCTTGC
CTTCTGGTAAATCTGAGAGCAGGGCGAGAAAAGGAAGATCAGAGTTCCACCCTTAAATCTGTAGGTTTTCACTCCC
CCACTCTCCTTTGTCAGTCCCGTGGAGTCTCCATCTGAGCCCTTTCTAGTCCAGGCATCCCGATGTTGGTGGATG
GCCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCTCGGCTCAGCTCTATCCA
TAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTCGGGGGCGGCTGGTGTGAACACCA
AGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAGATGAAGGAGGCCATGAGGACCCTGATAT
TCCCACCCAGCATGCCTTTTTCCAGGCCAAGCATCTCATTGAGAGAAGTCAAGTGTTAATATTCTAAGGATGA
TGCCAAAAGGGGCTGCCTTGACCTCCATGACATTGGCATCGTGACTATGGACTGGCTGGTGGGAATGTCACCT
ACAGGCCTCACTGCCACATCTGTTTCAACCCCAAGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCGTC
CATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGTGATG
ACAGCTTGCTGAGGAATTTCACTCTGGTGACCCAGCACC CGAGGTGATTACACAAACCAAAATGTTGCTGGT
CGAAATTTGAAACCATCTTCTTACCATCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGTCTCC
GGAGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGC
TCAGTGGAGAGCACCATGACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAACTC
ACCCTGAGTTTATTGGAATCAAAATCATTATTTCGGATCACAGATCCAAAGATGTGGCTGTCATCGCAGAATCCA
TCCGAATGGCCATGGGGCTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACA
CTGGCCACTCCTTGCGTGAATAAGGAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGTGCCTTACTTCT
TCCACGCCGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACTA
CCAGAATCGGCCATGGATTGCTTTGAGCAACACCCCGCAGTCAGGACTTACTCCTGGAAAAGGACATCCCCA
TAGAAGTCTGTCCCATCTCTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACCACCTGTAGCCACTCTGA
TGGCCACTGGGCACCCCATGGTGTATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGTCTATGATT
TCTATGAGGCTTCTATGGGCATTGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACCTTA
TCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCA
TAGCAGATGTGGCTACAAAGTGGAGAGAAGCTAGCCAGCCCTCTACAAGCTGCTTCTTGCACACGCTGTCACTT
CCTCTCACTCGTTCTTGAATCAGCTCCATGTGCCATGAAATCAATGGCCTCTGTATGGAGCGACCCTGTGAGAA
GCATTGGCTGGCTGAGCAAAATTCATCCTCTGGAAAATATTCTCTCAGCCACAGTGACATTGACCCTCTTGGTT
TTCTCCTCTCTCTGGCCATTTCTTCCAGTTTCCCTATTTTCAGAGTCTTCTCCTCTCTCTGATCTCTGTGCTGTTT
CCTCAGGACTCAGTCTGGGCTCTCTTCTATTCTGGTCTCTTTATTTTTTTTATTTTGTATTTTTTCGAGATGGA
GTTTTGCTCTTGTGCCCAGGCTGGAGTACAATGGTGCGATCTCAGCTCAGTGCAACCTCCGCCACCCGGGTCA
GGCAATTTCTTGTGATCAGCCTCCCGAGTAGTTGGAATTATAGGCATGTGCCACCACACCCAGCTGATTTTTGCA
TTTTTAGTAGAGACAGGTTTTTACCATGTTGGCGAGCTGGTATCCAACCTCTTGACCTCAGGTGATCCACTCGCCC
CTTGGCTCCCAAAGTGCTGGAATTACAGGCGTTAGCCACCATGCTGGCCTATTCTGGTCTCTTAACTCTCTCC
TCTTTATTTCTCTCTCTCTCTGTACACTTTTCTGGGTGGTCTCATCCATTCTTTGCTTTTTTCATACCATTA
TTTGTTAATGATTCCCACATTTATTTATGCACTTGGAGAGCTCACAGGAATCTCAGAACTGATGAGGTACAATT
CTGAACCCCTCAGTCTCTTCCCTTTAAACCTTTCTTTTCTCTACTTTAATTTTTCTAAAGAGTGCTTTGCTATGT
TGCCCAGGCTGGTCTCCAACCTCAAGTGATCCTCTGCGCGAGTCTCCCGAAGTGCTGGGATTACTGACATGAGCC
ACCACACTCAGCCCTTTAAACCTTTCCCTGGCCTTTCCCATAGCTGGTGAAGGACACCTCCATCCATTCCACGCA
GTTGCTCAAAGCAGAAATTTTCAAGTGAAGTCTTGATGCTGCGCGGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CTCATCTGGACTCCAGCGGTGGCTTCTTGATGCTGCGCGGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CAGACTCCAGCGGTGGTGTCTACCTGCACGCTGTTGCCAAGTCCAAGCTACCATACTCTGCCTGAGCTATGAC
AACAGCCTCCTCACTGATCTCCCTTTCTTCCCTTTGCCTCTCCAGCTCATTTTTTCACAGTGTAGAATGACATT
TTGTTTGTGTTTGTGTTTGTGTTGAGATGGAGTCTCGTTCTGTTGCCAGGGTGGAGTGCAGCGGTGCGATCTC
GGCTCACTGCAACTTCCACTCCCGGGTCAAGCGGATTCTCGTGCTCAGCCTCCTGAGTAGCTGGGATTACAGG
CATGCACCACCATGCCCGGATAATTTTTGTATTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCT
CGAACACCTGACTTCGTGGTCCACCCGCTTCGGCTCCCAAAGCACTGGGATTACAGGCGTGAGCCACCCGGCC
TGGCCTAGAATGACTTTTAAAGATCAAAATTAATCAGGTCACTCCTTTGCTTACAACGCAGTGCGTTTAGAGGT
ACACCCCATGTCTCCACAGGGCATAAGCATCCGATTTAATCTGGATCCATTCCGGCGCTTCTCTCCAGTCAC
CCAGAGGGCCCCAACCCCGGCGGCCCTTTCTTCTCAAATGTCTCGGCTCTATACCGTGCTGGGTCTTTTCTC

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FIGURE 1287B

TTTCTCTCTGCCTGGAACATTCTTTCCCTTTTGTCTTGCCCACTCCTGTTTACCCTTCAAGTTTCAAGTT
CATGTCACGTCTCAGAGAGGTTTTCTGTGCTCGCCCTGTTTCTCTCAGGAAGCCTTGCTCTTTCCATCATGC
CTCTAATCACAGCTTATAATCGGATATTTATTTCTGTGTCTACAGTCTTGCCCTGCCAGACTGTAAGCCCCATGT
GGGCAGGCGCTCATGATTGTTTCTGATTGTTTCACGCATGCTGCTAACCAGAGCCTGGGCCCAAAGCTAGTTAG
TACTCAATAACAATGCATTGAAAAAAAAAAAAAAAAAXTA

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FIGURE 1288

MLVDGPSERPALCFLLAVAMSFSGSALSIDETRAHLLLEKMMRLGGRLVLNTKEELANERLMTLKIAEMKEAM
RTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVNRNVTYRPHCHICFTPRGIMQFRFAH
PTPRPSEKCSKWILLEDYRKRQNVTEFDDSLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFR
DYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQEVAQKFVETHPEFIGIKIISDHRSKDVAV
IAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSRLDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDAL
MLNTTRIGHGFALSKHPAVRTYSWKDIPIEVCPISNQVLKLVSDLRNHPVATLMATGHPMVISSDDPAMFGAKG
LSYDFYEVFMGIGMKADLRTLKQLAMNSIKYSTLLESEKNTFMEIWKKRWDKFIADVATK

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FIGURE 1289

CCAAGCTCCAGCTGTTTGTCAAGGCGAGTGAGGACGGGGAGAGCGTGGGTCACTGCCCCCTCCTGCCAGCGGTCTT
CATGGTCTGCTCCTCAAGGGCGTACCTTTCACCCTCACCACGGTGGACACGCGCAGGTCCCCGGACGTGCTGAA
GGACTTCGCCCCCGGCTCGCAGCTGCCCATCCTGCTCTATGACAGCGACGCCAAGACAGACACGCTGCAGATCGA
GGACTTTCTGGAGGAGACGCTGGGGCCGCCGACTTCCCCAGCCTGGCGCCTCGTTACAGGGAGTCCAACACCGC
CGGCAACGACGTTTTCCACAAGTTCTCCGCGTTTCATCAAGAACCCGGTGCCCGCGCAGGACGAAGCCCTGTACCA
GCAGCTGCTGCGCGCCCTCGCCAGGCTGGACAGCTACCTGCGCGCGCCCTGGAGCACGAGCTGGCGGGGGAGCC
GCAGCTGCGCGAGTCCCGCCGCGCTTCTGGACGGCGACAGGCTCACGCTGGCCGACTGCAGCCTCCTGCCCCAA
GCTGCACATCGTCGACACGGTGTGCGCGCACTTCCGCCAGGCGCCCATCCCCGCGGAGCTGCGCGGCGTACGCCG
CTACCTGGACAGCGCGATGCAGGAGAAAGAGTTCAAATACACGTGTCCGCACAGCGCCGAGATCCTGGCGGCCTA
CCGGCCCCCGGTGCACCCCCGCTAGCGCCCCACCCCGCGTCTGTGCCCCAATAAAGGCATCTTTGTGCGGAAAAA
AA

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FIGURE 1290

MVLLKGVFFILTTVDTRRSPDVLKDFAPGSQLPILLYDSAKTDTLQIEDFLEETLGPPDFPSLAPRYRESNTA
GNDVFHKFSAFIKNPVPAQDEALYQQLLRALARLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPK
LHIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKFKYTCPHSAEILAAYRPAVHPR

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FIGURE 1291

TTGCTGAGTACCCAGAGTTGCGAGGAGTTTTTTAACTGATTTAGCCAGGTGGCAATCATCAGTGAATGGATGAAG
AAAGGCCCCCTTAGAATGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACCTCCTTGAAGATGGCAGCATGTCT
GTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAACTATGAATGAAGGGGACCATAGAGTGAGGGAGAAG
CTGATGCATTTGTTACGTCTGGAGACTGCAAAGCATACAGCCCAGAGGATCTGGAAGAGAGAAAGAACAGCCTA
AAGAAATGGCTTGAGAAGAACCACATCCCCATCACTGAACAGGGAGACGCTCCAAGGACTCTCTGTGTGGCTGGG
GTCCTGACTATAGACCCACCATATGATCCAGAAAATTGCAGCAGCTCTAATGAGATTATTCTGTGCGGTGTTGAG
GATCTTATTGAAGGACATCTTACAGCTTCCCAATTGAGAGGCCAGGAAGTGTGAACATACTGATAGAAAAGACTA
TATTTTATCCCTCATAAAATGTTTTAAATGTAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSEWMKKGPLEWQDYIYKEVRVTASEKNEYKGWVLTTPV
SANIVLVNFLEDGSM SVTGIMGHAVQTVETMNEGD
HRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKN
HIPITEQGDAPRTL CVAGVLTIDPPYDPENCSSSNEI
ILSRVQDLIEGHLTASQ

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FIGURE 1293

AGCCGAGGGCTGCACAAAGACCTTCCTGGCCTGCCCCAGACAGAGCTGAGGACCCCTGGCCGTGGGCTTGGGCCT
CGGCITCACAGGATGGGGCTGCCAGTGTCTGGGCCCCCTCCTGCCCTCTGGGTCTAGGGTGTGCGCCCTGCTC
CTCTCGCTGTGGGCGCTGTGCACAGCCTGCCGCAGGCCCCGAGGACGCTGTAGCCCCCAGGAAGAGGGCGCGGAGG
CAGCGGGCGAGGCTGCAGGGCAGTGCACGCGCGCGGCGGAAGCGTCCCTACTGAGGCGGACCCACCTCTGCTCCCTC
AGCAAGTCGGACACCAGACTGCACGAGCTGCACCGGGGCGCGCAGCAGCAGGGCCCTGCGGCTGCCAGCATG
GATCTCCTGCGCCACACTGGCTGGAGGTGTCCAGGGACATCACCGGACCGCAGGCAGCCCCCTCTGCCTTCCCA
CACCAGGAGCTGCCCCGGGCTCTGCCGGCAGCTGCAGCCACCGCAGGGTGCCTGGCCTCGAGGCCACCTATTCC
AACGTGGGGCTGGCGGCCCTTCCCGGGGTGAGCCTGGCGGCCAGCCCTGTGGTGGCCGAGTATGCCCGCGTCCAG
AAGCGCAAAGGGACCCATCGCAGTCCCCAAGAGCCACAGCAGGGGAAGACTGAGGTGACCCCGGCCGCTCAGGTG
GACGTCTGTACTCCAGGGTCTGCAAGCCTAAAAGGAGGGACCCAGGACCCACCACAGACCCGCTGGACCCCAAG
GGCCAGGGAGCGATTCTGGCCCTGGCGGGTGACCTGGCCTACCAGACCCTCCCGCTCAGGGCCCTGGATGTGGGC
AGCGGCCCCCTGGAAAACGTGTATGAGAGCATCCGGGAGCTGGGGGACCCTGCTGGCAGGAGCAGCACGTGCGGG
GCTGGGACGCCCCCTGCTTCCAGCTGCCCCAGCCTAGGGAGGGGCTGGAGACCCCTCCCTGCCTCCCTGCCCTGA

ACACTCAAGGACCTGTGCTCCTTCCTCCAGAGTGAGGCCCCGTCCCCGCCCCGCCCCGCTCACAGCTGACAGCG
CCAGTCCCAGGTCCCCGGGCTGCCAGCCCGTGAGGTCCGTGAGGTCTGGCCGCTCTGACAGCCGCGGCCTCCCC
GGGCTCCAGAGAAGGCCCGCGTCTAAATAAAGCGCCAGCGCAGGATGAAAGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1294

MGLPVSWAPPALWVLGCCALLLSLWALCTACRRPEDAVAPRKRRARRQRARLQGSATAAEASLLRRTHLCSLSKSD
TRLHELHRGPRSSRALRPASMDLLRPHWLEVSRDITGPQAAPSAFPHQELPRALPAAAATAGCAGLEATYSNVGL
AALPGVSLAASPVVAEYARVQKRKGTHRSPQEPQQGKTEVTPAAQVDVLYSRVCKPKRRDPGPTTDPLDPKGQGA
ILALAGDLAYQTLPLRALDVGSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCPSLGRGWRPLPASLP

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FIGURE 1295

ACACACGCTATGCCTTAAATTGGGCCAGGCTGAGGCGCTGCTGCTGGAGCGGCCGATCCGAGACGTGGCTCCCTG
GGCGGCAGAACCAATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTAC
CTCTATCCGGCTTCCAGACAAGCTGCAGGAATCCAGGGATTACTCCAAGTGAAGAAAAAGATGGTAATCTTCCA
GATATTGTGAATAGTGAAGTTTGCATGAGTTCCTGGTTAATTTGCATGAGAGATATGGGCCTGTGGTCTCCTTC
TGGTTTGGCAGGCGCGTCTGGTTAGTTTGGGCACTGTGATGTACTGAAGCAGCATATCAATCCCAATAAGACA
TTGGACCCCTTTTGAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGTGAGTGAAGAACCA
ATGAGGAAAAAATTGTATGAAAATGGTGTGACTGATTCTCTGAAGAGTAACTTTGCCCTCCTCCTAAAGCTTTCA
GAAGAATTATTAGATAAATGGCTCTCCTACCCAGAGACCCAGCACGTGCCCTCAGCCAGCATATGCTTGGTTTT
GCTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGATGATCAGGAAGTCATTGCTTCCAGAAG
AATCATGGCACACCCTCATGCAACTGGAGTCTGTTTAAAGGAACATCATAAAAGAACGAAAAGGAAGGAACCTCAG
TCAACATATTTTATTGACTCCTTAGTACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTT
TCTCTGCCAGTTGCATAATAACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTAAACCCTCTGAAGAAGTT
CAAAAAAATTATATGAAGAGATAAACCAAGTTTTTGGAAATGGTCTGTACTCCAGAGAAAATTGAGCAGCTC
AGATATTGTCAGCATGTGCTTTGTGAAGTGTCCGAACGCCAACTGACTCCAGTTTTCTGCCAGTTTCAAGAT
ATTGAAGGAAAAATTGACCGATTTATTATTCCTAGAGAGACCCCTCGTCTTTATGCCCTTGGTGTGGTACTTCAG
GATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGGTTTGATGATGAATTAGTAATGAAAACTTTT
TCCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACAGTACTTCTT
AGTGTATTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTAATTGAAACAAAGTATGAAGTGGTAACA
TCATCAAGGGAAGAAGCTTGGATCACTGTCTCAAAGAGATATTAAAATTTTATACATTTAAATCATTGTAAAT
TGATTGAGGAAAACAACCATTTAAAAAAATCTATGTTGAATCCTTTTATAAACCAGTATCACTTTGTAATATAA
ACACCTATTTGACTTAATTTTGTAAATTTGGATTTTATATATCATATTTTCTTAATTCATTGGACACATTTGA
CTTACTGCACAGTATATTGATCATTTTAAATGGGAACTTTAGCTTTCTACTTTTAAATTTTGGTTTTTCACTTTC
TATGCCATTATTTTGGATTCTTTTCTTAGTGTGAGCTCTAAAATCAATGTTCTTGAAAAAGAAATTATTTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLDFAIFAVTFLLALVGAVLYLYPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGR
RVVVS LGTV DVLKQHINPNKTLDPFETMLKSLLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFALLKLSEELL
DKWLSYPETQHVP L SQHMLGFAMKSVTQMVMGSTFEDDQEVIRFQKNHGTPSCNWSLFKEHHKRTKRKELQSTYF
IDSLVQGNLNDQQILED SMIFSLASCIITAKLCTWAICFLT TSEE VQKKLYEEINQVFGNGPVTPEKIEQLRYCQ
HVLCELFRTAKLTPVSAQFQDIEGKIDRFIIPRETLVLYALGVVLQDPNTWPSPHKFDPDRFDELVMKTFSSLG
FSGTQECPELRFAYMVT TVLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

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FIGURE 1297A

GTGGGATAAAGGAATGAGGTTTCAGAAAGGGGCAGGGAGTTGCCCGCAGCCGCACCGCACGTCTTCAGCCCGACCG
TTGTCTTGACCTCTCTGTCCCGTCCCGTCCCAGTCTCACCATGGCCTTCTGGACACAGCTGATGCTGCTGCTCT
GGAAGAATTTTCATGTATCGCCGGAGACAGCCGGTCCAGCTCCTGGTGAATTGCTGTGGCCTCTCTTCTCTTCT
TCATCTGGTGGCTGTTCGCCACTCCACCCGCCCCCTGGAGCACCATGAATGCCACTTCCCAAACAAGCCACTGTC
CATCGGCGGGCACCCTGCCCTGGCTCCAGGGTCTCATCTGTAATGTGAACAACACCTGCTTTCCGCAGCTGACAC
CGGGCGAGGAGCCCCGGCGCCTGAGCAACTTCAACGACTCCCTGGTCTCCCGGCTGCTAGCCGATGCCCGCACTG
TGCTGGGAGGGGCCAGTGCCACAGGACGCTGGCTGGCTAGGGAAGCTGATGCCACGCTGAGGGCTGCACGCA
GCACGGCCAGCCTCAACCAACCAAGCAGTCTCCACTGGAACCACCCATGCTGGATGTCGCGGAGCTGCTGACGT
CACTGCTGCGCACGGAATCCCTGGGGTTGGCACTGGGCCAAGCCCAGGAGCCCTTGACAGCTTGTGGAGGGCCG
CTGAGGACCTGGCCAGGAGCTCCTGGCGCTGCGCAGCTGGTGGAGCTTCGGGCCTGCTGCAGAGACCCCGAG
GGACCAGCGGCCCCCTGGAGTTGCTGTGAGAGCCCTCTGCAGTGTGAGGGACCTAGCAGCACAGTGGGCCCT
CCCTCACTGGTACGAGCTAGTGACCTGATGGAGCTGGTGGGGCAGGAGCCAGAATCCGCCCTGCCAGACAGCA
GCCTGAGCCCCGCTGCTCGGAGCTGATTGGAGCCCTGGACAGCCACCCGCTGTCCCGCTGCTCTGGAGACGCC
TGAAGCCTCTGATCCTCGGAAGCTACTCTTGCACCAGATACACCTTTTACCCGGAAGCTCATGGCCAGGTCA
ACCGGACCTTCGAGGAGCTCACCTGCTGAGGGATGTCCGGGAGGTGTGGGAGATGCTGGGACCCCGGATCTTCA
CCTTCATGAACGACAGTTCCAATGTGGCCATGCTGCAGCGCTCCTGCAGATGCAGGATGAAGGAAGAAGGCAGC
CCAGACCTGGAGGCCGGGACCACATGGAGGCCCTGCGATCCTTTCTGGACCTGGGAGCGGTGGCTACAGCTGGC
AGGACGCACACGCTGATGTGGGGCACCTGGTGGGCACGCTGGGCCGAGTGACGGAGTGCCTGTCTTGGACAAGC
TGGAGGCGCACCCCTCAGAGGCAGCCCTGGTGTGCGGGGCCCTGCAACTGCTCGCGGAACATCGATTCTGGGCCG
GCGTCTCTTCTTGGGACCTGAGGACTCTTCAGACCCACAGAGCACCAACCCAGACCTGGGCCCGGCCACG
TGCGCATCAAAATCCGATGGACATTGACGTGGTTCAGGAGCAATAAGATCAGGGACAGTTTGGGACCTTG
GCCAGCCGCGGACCCCTGACCGACCTGCGCTACGTGTGGGGCGGCTTCGTGTACCTGCAAGACCTGGTGGAGC
GTGCAGCCGTCCGCTGCTCAGCGGCGCAACCCCGGGCCGGCTCTACCTGCAGCAGATGCCCTATCCGTGCT
ATGTGGACGAGCTGTTCTGCGTGTGCTGAGCGGCTCGCTGCCGCTCTTCTGACGCTGGCTGGATCTACTCCG
TGACACTGACAGTGAAGGCCGTGGTGCAGGAGAAGGAGACGCGCTGCGGGACACCATGCGCGCATGGGGCTCA
GCCGCGGGTCTCTGGCTAGGCTGGTTCTCAGCTGCCTCGGGCCCTTCCTGCTCAGCGCCGCACTGCTGGTTC
TGGTGTCTAAGCTGGGAGACATCCTCCCTACAGCCACCCGGCGGTGGTCTTCTGTTCTTGGCAGCCTTCGCGG
TGGCCACGGTGACCCAGAGCTTCTGCTCAGCGCTTCTTCTCCCGCGCCAACCTGGCTGCGGCTGCGGCGGCC
TGGCTACTTCTCCCTCTACCTGCCCTACGTGCTGTGTGTGGCTTGGCGGGACCGGCTGCCCGCGGGTGGCCGCG
TGGCCGCGAGCTGCTGTGCGCCGTGGCCTTCGGCTTCGGCTGCGAGAGCCTGGCTCTGCTGGAGGAGCAGGGCG
AGGGCGCGCAGTGGCACAACGTGGGCACCCGGCTACGGCAGACGTCTTCAGCCTGGCCAGGTCTCTGGCCTTC
TGCTGCTGGACGCGGCGCTCTACGGCCTCGCCACCTGGTACCTGGAAGCTGTGTGCCAGGCCAGTACGGGATCC
CTGAACCATGGAATTTTCTTTTCGGAGGAGCTACTGGTGGGACCTCGGCCCCCAAGAGTCCAGCCCTTGCC
CCACCCCGCTGGACCCAAAGGTGCTGGTAGAAGAGGCACCGCCCGGCTGAGTCTGGCGTCTCCGTTCGACGCC
TGGAGAAGCGCTTTCCTGGAAGCCCGCAGCCAGCCCTGCGGGGGCTCAGCCTGGACTTCTACCAGGGCCACATCA
CCGCTTCTGGGCCACAACGGGGCCGGCAAGACCACACCTGTCCATCTTGAGTGGCCTCTTCCACCCAGTG
GTGGCTCTGCCTTCATCCTGGGCCACGACGTCCGCTCCAGCATGGCCGCCATCCGGCCCCACCTGGGCGTCTGTC
CTCAGTACAACGTGCTGTTTACATGCTGACCGTGGACGAGCAGTCTGGTTCTATGGGCGGTGAAGGGTCTGA
GTGCCGCTGTAGTGGGCCCGGAGCAGGACCGTCTGCTGCAGGATGTGGGGCTGGTCTCCAAGCAGAGTGTGCAGA
CTCGCCACCTCTCTGGTGGGATGCAACGGAAGCTGTCCGTGGCCATTGCCTTTGTGGGCGGCTCCCAAGTTGTTA
TCCTGGACGAGCCTACGGCTGGCGTGGATCCTGCTTCCCGCGCGGTATTTGGGAGCTGCTGCTCAAATACCGAG
AAGGTGCGACGCTGATCCTCTCCACCCACACCTGGATGAGGCAGAGCTGCTGGGAGACCGTGTGGCTGTGGTGG
CAGGTGGCCGCTTGTGCTGCTGTGGCTCCCCACTCTTCTGCGCCGTCACCTGGGCTCCGGCTACTACCTGACGC
TGGTGAAGGCCCGCTGCCCTGACCACCAATGAGAAGGCTGACACTGACATGGAGGGCAGTGTGGACACCAGGC
AGGAAAAGAAGAATGGCAGCCAGGGCAGCAGAGTCGGCACTCCTCAGCTGCTGGCCCTGGTACAGCACTGGGTGC
CCGGGGCAGCGCTGGTGGAGGAGCTGCCACACGAGCTGGTGTGGTGTGCCCTACACGGGTGCCCATGACGGCA
GCTTCGCCACACTCTTCCGAGAGCTAGACACGCGGCTGGCGGAGCTGAGGCTCACTGGCTACGGGATCTCCGACA
CCAGCCTCGAGGAGATCTTCTGAAGGTGGTGGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCG

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FIGURE 1297B

GGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCTGCGGCTCAAGATGCCGCCACAGGAGACAGCGC
TGGAGAACGGGGAACCAGCTGGGTGAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTAC
AGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGCCCGCCGAGCCGCC
GCGGCCTGTTGCCCCAGATCGTGCTGCCCTGCCCTCTTTGTGGGCCTGGCCCTCGTGTTACAGCTCATCGTGCCCTC
CTTTGCGGCACTACCCGGCTCTGCGGCTCAGTCCACCATGTACGGTGCTCAGGTGTCCTTCTCAGTGAGGACG
CCCCAGGGGACCCTGGACGTGCCCGGCTGCTCGAGGCGCTGCTGCAGGAGGCAGGACTGGAGGAGCCCCCAGTGC
AGCATAGCTCCACAGGTTCTCGGCACCAGAAGTTCTGCTGAAGTGCCCAAGGTCTTGCCAGTGGCAACTGGA
CCCCAGAGTCTCCATCCCCAGCCTGCCAGTGTAGCCAGCCCGGTGCCCGGCGCTGCTGCCCGACTGCCCGGCTG
CAGCTGGTGGTCCCCCTCCGCCCCAGGCAGTGACCGGCTCTGGGGAAGTGGTTCAGAACCTGACAGGCCGGAACC
TGTCTGACTTCTGGTCAAGACCTACCCGCGCTGGTGCGCCAGGGCCTGAAGACTAAGAAGTGGGTGAATGAGG
TCAGGTACGAGGCTTCTCGCTGGGGGGCCGAGACCCAGGCCTGCCCTCGGGCCAAGAGTTGGGCCGCTCAGTGG
AGGAGTTGTGGGCGCTGCTGAGTCCCTGCCCTGGCGGGGCCCTCGACCGTGTCTGAAAAACCTCACAGCCTGGG
CTCACAGCCTGGACGCTCAGGACAGTCTCAAGATCTGGTTCAACAACAAAGGCTGGCACTCCATGGTGGCCTTTG
TCAACCGAGCCAGCAACGCAATCCTCCGTGCTCACTGCCCCAGGCCGGGCCCCGACGCCACAGCATACCA
CACTCAACCAACCCCTTGAACCTACCAAGGAGCAGCTGTTTGAGGCTGCATTGATGGCCTCTCGGTGGACGTCC
TCGTCTCCATCTGTGTGGTCTTTGCCATGTCTTTGTCCCGGCCAGCTTCACCTTGTCTCTCATTGAGGAGCGAG
TCACCCGAGCCAAGCACCTGCAGCTCATGGGGGGCTGTCCCCACCCTCTACTGGCTTGGAACCTTCTCTGGG
ACATGTGTAATACTTGGTGCCAGCATGCATCGTGGTGCTCATCTTTCTGGCCTTCCAGCAGAGGGCATATGTGG
CCCCTGCCAACCTGCCTGCTCTCTGCTGTTGCTACTACTGTATGGCTGGTCGATCACACCGCTCATGTACCCAG
CCTCCTTCTTCTCTCCGTGCCAGCACAGCCTATGTGGTGCTCACCTGCATAAACCTCTTTATTGGCATCAATG
GAAGCATGGCCACCTTTGTGCTTGAGCTCTTCTCTGATCAGAAGCTGCAGGAGGTGAGCCGGATCTTGAACAGG
TCTTCTTATCTTCCCCACTTCTGCTTGGGCCGGGGCTTATTGACATGGTGGGAACAGGCCATGGCTGATG
CCTTTGAGCGCTTGGGAGACAGGCACTTCCAGTACCCCTGCGCTGGGAGGTGGTCGGCAAGAACCTCTTGGCCA
TGGTGATACAGGGGCCCTCTTCTTCTTCTTCACTACTGCTGCAGCACCGAAGCCAACCTCCTGCCACAGCCCA
GGGTGAGGTCTCTGCCACTCCTGGGAGAGGAGGACGAGGATGTAGCCCGTGAACGGGAGCGGGTGGTCCAAGGAG
CCACCCAGGGGGATGTGTTGGTGCTGAGGAACCTGACCAAGGTATACCGTGGGCAGAGGATGCCAGCTGTTGACC
GCTTGTGCTTGGGATTCCCCCTGGTGAGTGTTTGGGCTGCTGGGTGTGAATGGAGCAGGGAAGACGTCCACGT
TTCGATGGTGACGGGGACACATTGCCAGCAGGGGCGAGGCTGTGCTGGCAGGCCACAGCGTGGCCCGGGAAC
CCAGTGCTGCGCACCTCAGCATGGGATACTGCCCTCAATCCGATGCCATCTTTGAGCTGCTGACGGGCGCGAGC
ACCTGGAGCTGCTTGC CGCGCTGCGCGGTGTCCCGAGGGCCAGGTTGCCAGACCGCTGGCTCGGGCCTGGCGC
GTCTGGGACTCTCATGGTACGCAGACCGGCCTGCAGGCACCTACAGCGGAGGGAACAAACGCAAGCTGGCGACGG
CCCTGGCGCTGGTTGGGGACCCAGCCGTGGTGTTTCTGGACGAGCCGACCACAGGCATGGACCCAGCGCGCGG
GCTTCCCTTTGGAACAGCCTTTTGGCCGTGGTGCGGGAGGGCCGTTCAAGTATGCTCACCTCCCATAGCATGGAGG
AGTGTGAAGCGCTCTGCTCGCGCTAGCCATCATGGTGAATGGGCGGTTCCGCTGCCTGGGCAGCCCGCAACATC
TCAAGGGCAGATTGCGGGCGGGTCAACACTGACCCTGCGGGTGCCCGCGCAAGGTCCCAGCCGGCAGCGGCCT
TCGTGGCGGGCCGAGTTCCCTGGGTGCGGAGCTGCGCGAGGCACATGGAGGCGCCCTGCGCTTCCAGCTGCCCGCG
GAGGGCGCTGCGCCCTGGCGCGCTCTTTGGAGAGCTGGCGGTGCACGGCGCAGAGCACGGCGTGGAGGACTTTT
CCGTGAGCCAGACGATGCTGGAGGAGGTATTCTTGTACTTCTCCAAGGACCAGGGGAAGGACGAGGACACCGAAG
AGCAGAAGGAGGCAGGAGTGGGAGTGGACCCGCGCCAGGCCTGCAGCACCCCAACGCGTCAGCCAGTTCTCTG
ATGACCTAGCACTGCCGAGACTGTGCTCTGAGCCTCCCTCCCTGCGGGGCGCGGGGAGGCCCTGGGAATGGC
AAGGGCAAGGTAGAGTGCTTAGGAGCCCTGGACTCAGGCTGGCAGAGGGGCTGGTGCCCTGGAGAAAATAAGAG
AAGGCTGGAGAGAAGCCGTGGTGGTGAAA

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FIGURE 1298

MAFWTQLMLLLWKNFMYRRRQPVQQLLVELLWPLFLFFILVAVRHSHPPELHHECHFPNKLPSAGTVPWLQGLIC
NVNNTCFPQLTPGEEPGRLSNFNDLSVSRLLADARTVLGGASAHRTLGLGKLIATLRAARSTAQPQPTKQSPLE
PPMLDVAELLTSLRTESLGLALGQAQEPHLSLLEAAEDLAQELLALRSIVELRALLQRPRGTSGPLELLSEALC
SVRGPSSSTVGPSSLNWYEASDLMELVGQEPESALPDSSSPACSELIGALDSHPLSRLLWRRLKPLILGKLLFAPD
TPFTRKLMQVNRTEELTLLRDVREVWEMLGPRITFTMNDSSNVAMLQRLLOMQDEGRRQPRPGGRDHMEALRS
FLDPGSGGYSWQDAHADVGHLVGTIGRVTECLSLDKLEAAPSEAAVSRALQLLAEHRFWAGVVFLGPEDSSDPT
EHPTPDLGPGHVRKIRMDIDVVRTNKIRDRFWDPGPAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRA
GLYLQQMPYPCYVDDVFLRVLSRSLPLFLTLAWIYSVTLTVKAVVREKETRLRDTMRAMGLSRVWLWGLFSLCL
GPFLLSAALLVLVLKGLDILPYSHPGVVFLFLAAFAVATVTQSFLLSAFFSRANLAAACGGLAYFSLYLPYVLCV
AWRDRLPAGGRVAASLLSPVAFGFGCESLALLEEQGEGAQWHNVGTRPTADVFSLAQVSGLLLLDAALYGLATWY
LEAVCPGQYGIPEPWNFPFRSYWCGPRPPKSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLKRFPGSPQPALR
GLSLDFYQGHITAFGLHNGAGKTTTSLISGLFPSPGGSFILGHVDRSSMAAIRPHLGVCPOYNVLFDMTLTVDE
HVWFYGRKGLSAAVVGPEQDRLLQDVGLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQVVILDEPTAGVDPASR
RGIWELLKYREGRTLILSTHHLDEAELLGDRVAVVAGGRGCCGSPFLRRHLGSGYYLTLVKARLPLTTNEKA
DTDMEGSVDTRQEKNGSQGSRVGTPQLLALVQHWVPGARLVEELPHELVLVLPTGAHDGFSATLFRELDTRLA
ELRLTGYSISDTSLEEIFLKVVEECAADTMEDGSCGQHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETD
QGSQPDVAVGRVQGWALTRQQLQALLKRFLARRSRGLFAQIVLPALFVGLALVFSLIVPFFGHYPALRLSPTM
YGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHSSHRFSAPEVPAEVAKVLASGNWTPESPSPACQCSQP
GARLLPDCPAAAGGPPPPQAVTGSGEVVQNLTRNLSDFLVKTYPRLVROGLKTKKVVNEVRYGGFSLGGRDPG
LPSGQELGRSVEELWALLSPLPGGALDRVLKNTAWAHSIDAQDSLKIWFNNKGWHSMAFVNRAASNAIHLRAHLP
PGRARHAHSITTLNHPLNLTKEQLFEAALMASSVDVLVSI CVVFAMSFVPASFTLVLEIEERVTRAKHLQLMGGLS
PTLYWLGNFWDMCNYLVPACIVVLIFLAFQORAYVAPANLPALLLLLLLYGWSITPLMYPASFFFVSPSTAYVV
LTCINLFIGINGSMATFVLELFSQKLQEVSRILKQVFLIFPHFCLGRGLDMVRNQAMADAFERLGDQRQFSPL
RWEVVGKNLLAMVIQGPLFLFLFTLLQHRSQLLPQPRVRSPLLGEEDEDVARERERVVQATQGDVLVLRNLTK
VYRGQRMFAVDRLCLGIPPGECFGLGVNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAREPSAAHLSMGYCPQS
DAIFELLTGREHLELLARLRGVPEAQVAQTAGSGLARLGLSWYADRPAGTYSGGNKRKLATALALVGDPVAVFLD
EPTTGMDPSARRFLWNSLLAVVREGRSVMLTSHSMEECEALCSRLAIMVN

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FIGURE 1299

GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATCGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCCTCCACGCTCCTGCCGCTGTCTCCACGTCCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGACCGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACACTTAAATTTTTCCAGACATTGCGCTTGCTTGAGATAGTTCACGTGTTAATTGGAATTGIACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTGGA
GTTGCTGGTGAACCTTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAAATACAATGTCTCTTTTGACTACTATTATTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
CCACAACCTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
TAAACAACCTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGVQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLDHLPHYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMF SIRLPKNYNVSFDYYYFLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

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FIGURE 1301A

GGCGGCTCCGGCGCAGACCTTGGAGAGCACAGCTGCCGGCCCGCGAGCCAGCCTCGGTTCCCGCGGCCCGCCGAG
GCTCGGAGCCATCCAGCGACCCGGCGACCGGCCTCAGGCCCCGCC**ATG**GGGAAGACCAACAGCAAGCTGGCCCCC
GAGGTGCTGGAGGACCTTGTTTCAGAACACTGAGTTCAGCGAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCCTG
AAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTTCAGCAGCTCTACATCAAGTTCTTCCCCTACGGCGAC
GCCTCCAAGTTTCGCGCAGCACGCTTTCCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTC
ATCTGCGCCCTGTCGGTCACCTCCCGCGGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTG
GACGGCGACGGGCGAATCACGCGCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTG
ATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAG
GATAAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGCAGCCAAGAGTGACCCATCCATTGTGTGCTGCTG
CAGTGTGACATGCAGAAG**TAGA**AGCTGGTGAGGGGCAGGGTCCCTGGCCAGAAGGGGCATGGCCACCTCCCAACC
TGATGACCTCTCTGGCTGGCTCCAGGAGGAGGGACACTCCAGCCCCCTCTCTGGCCCCACCCAGTCTCTGCC
CAAGCCCTTCTCCCTCCATCAAGATCTTTGAGGGACCACTCACCTTGCAAAAGAGACAGGTCTCCAGTACC
CTGTCTTCTAGCCCCACCTCCCACTTGGCCAGAACCAATGTCCATTGGGCATAGGGGAGTTGGCTTTTGCCCCAG
GAGGTGAGGTTAAGGAGTTGGGGCCTGGGGTTCTGGTTAGGAATCTCTTGATCTGGGATTATGCTTTATAGG
ATGTGGTCCACAGGCCTGTACAGGGCCAAATTGGGTCTGTCCATTCTGAGGCTCCAGATCCCATAAAGGGGG
TCTCTTCCCATCCCTTCTACTCTACCTGGCCCTTCCAGCCCCAGCCTTTGGAGCGTTCATTAGTCCCTTCTTC
AGCTAATGATTACTGAGCACCTGTTTGGTGCTAAGGATATGGTCATTTACAAGACACATCTTGTGCCCTCTGGAA
GCTCATAGGGTTGTGAGGCCAACTTCCAGCCGTAGGGTCTCAGCTAAGCAGAAGGTGCTGGAAGGCTGGTTAGT
CTGGGAGGAGCTATTTATCTTCCAGCTCAGCTCCACAAAGCTGCAGAAGGACGAAATGAAAAGCATTGGA
GTTTAGGAGCCACGTGAGTGAAAGTTTAAAGAAAAATGAAATTTATGTCATACTTATTTTTTAGTACCCTTTAA
AGGAGCTACAGTCATTTTATTATTTTCAAGGAGTTTAAATATACTCTATATTACTTGGTTTATTATAAAATGATTA
AATGAATAGAGAAAATATTAATTTTCAAGGGGAAAAACCTGAGAAGAAAGGGAGAAAAGACCATGAAATTTACC
AGATAACACTTTTTAAGACTAAGTCTGAGCTGCCACTCTCAGCAGTTTTTGCTGCTTCAGCTCTTCCTTTTAT
TACCTTTTTCAATTCAACAAGCAACTTCTGCTACATACTTACTCCGGTTGGGTGCTGACTTCAGGGACAGGAAA
AAGCAAGGTTTGCAAAGAGTGAACTAGTGATATTTCCGTATCTTGGTAGTTTCGTTTCTGGATTGGGTTTAGTTT
CAGAACTGGACTTGTTCCCTTCACTGCCACAGAATCAGAAAGAGCTAGAAGAAAAGGCTCACCTGGCCACTGTTTA
GGCACCACAGACATAATTTATGGACGAAATGCCTAAAAATGTGCCAGGCATGCTCTGTTTGAGAGGCTTTTTCTAA
CCCCAAATCTTAGATCTGCCAGGTAGTTCAACATCTTCCAAGTGCTGGTTCTGCTTTCCAATGCCTGCTTCCC
AATTTTGGATCCATGAGCTATACAGCTGCATGCTTTGACTGCCGGAAAAATTAATCTTGCTTCTTCATCAGGTCT
TTCTCCTGTACTTGTGATCAGAAATTACCTTTGACGTGCAGTGACAGTTGATTTCCCTTGAAGTCCGGTGAAA
ACAGTCTAGTACACAGGTGCTGTGTCAGCCCAGGGTGGGAGCAGGAAATGATTGCTGAGCCCGGGCAGGGGAATTG
CATCTGCAGGAAAGAGATGCAGCATGCTCCTCACTCCTGAGTGCCCACTGTCTGCTTCTCTGCAGGTGAAAAC
TCTGGGGGATGCTGATCAATAGAGCTTGGTCCCAAGCTCTACTGGGCCCTTGAGGTAGCAAGGCCACTGGGTTG
CTATCCTCTTGATGGGGATAGCAACCACTGGTTTGCAACCACTGGGTTGCTATCCTTTTGCTATCCTCTTGCTCA
TGACCAGCCATATGGTGAGGCTGGGGAGTTCACATCCTCAGGCAGGAAGTAGCAGTTGTTTATCCAGCAATGCCT
CAAGGATGTTGATTGCTCCAGGAGCTGGCTATTAGGTATGTCTTGTGCGGTGAGTCAGCATCACAGACACATA
GATGCTCACCAGCCTGGCTTAGCTGGGACCTAAATCTTCTGGTGAAAAGCTTTTCACTAAGTGAGGTTCTTCCC
TGCAATGCTGAATCTAGCCTAATTCGCAACCACACAGAAATTCATGGCTTTCAAAGGCTTGCCATGTGCCCAT
CTCATTCTATACTCACATCCCATGGAGGTGAGGATTTTCACTTCTTTTCTCTAGACTTGGAAGCTGAGATTGAGA
GAGGAAGCATCCCTTGTGCAAGATCACATAGTCAGGAGGTGACACAGGGCTAAGACTTGAACCAAGGCTCTAAGA
GGATTTCTTCTTTTTCAGAGTCTCTTCCCTGTCCATTTCTGTGACTAAGCTGTGTCAGAGGTGACAGCAGGGCAAG
TTACATTGATATTATCCTTTATAGGCTTCTGTCTAAAAAGCTTCTGAGATTGTGGTCTTCAAAAAAATAGGA
GCTTGGTTGAAGTCCCCACATTTTCAAGCACTCAGTGTCTGCTCTGGCAGCTGTGCTAACAGCTCAGTGCTGT
CCTGGGAGTCTCTGACTCAGAACCCTCGAAGCATCCTGCATTGTCTTTACCCACCATCATCGTCACTAAGAGAA
ACATGCCTACCCATGAAGGCGTGTGATTACTCCAGGCTTCTGGACACACATAACCATGGGTGATTTTTGCTCC
TCAGGCCCAATATTCTCAGACAGCCCAGCAGTGTGAACACACAATGCCAGGCCAGGAAGTGGGACCACCATCTTG
CTGATGGAAGGAACAACAGGTGGCCCAGGACATGCTCCTGCATACTCTGGGTGTCCAGGGACTGTGTGCTCAG
GAGCACTGTGGTAGAGCACTGGCCCTGCCTTGAGAAGAGACACAGGTCTCCCGTCCCTGCACCAGCTGAGAGAGA

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FIGURE 1301B

CTTGCCACAAAGCACAAGGCTGGCAGAGATTTATGTATGACTTGCCACAGACACAAAAATATACAGACAATCAAAA
CATTGATATATTCAAACCTCTCCTTTAAATTCCAATCTTATTGCAACAACCTCTGTGAATTGCAAGGTCCCAGAATC
TGCCTTCTCACATACTCTACCCTCATTCAATCCTTTTGGGCTAATTGATGAGCATCTTATTTCTTATCTCTAAAAA
TTATCAGCAAAGGCTACTTCAGATGGCCACTTTAGTCCTTTTCAGCTGTAGTCAGGATTATTTAACTTACCTGTAT
ATCAAAAAGTGAAGAAAAAGTTAGTTTCATAAGTAAAGGCACTAAATCCTTTCCTGACAATGGCAGAGTCTCTAGAG
GTAGAAAATTTGCCTTGCTGCAGAGAGAGAAGGAATGGCGTGGGATGGGGGAAAGAAAAGAGAAGAAGAGAA
GAAGCTGGGGTCTCCAGGCAGGGTAGTAAGCTGACACTAAATATTTTTTACACAAAAATGTATTGAAGCAACAAA
TATTTCTGAAGATCCACCCTGGGTGAGGCTTTGAGCTGACTTTAGAGATCACTGTGGGGTCAAGAATGTCTTAC
ATGTTTTATTTCATCATTCTTGAAAAAGAAATAATTCAAACCTTGGAATTAAAAAGTCAGAAAAACAAAAAAA
AAAAAAA

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FIGURE 1302

MGKTN SKLAPEVLEDLVQNTEFSEQELKQWYKGLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFRTFDKN
GDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIIIEAIYKMVGTVIMMRMNQDGLTPQOR
VDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLQLCDMQK

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FIGURE 1303

CAAAGGTCAGAGGTAAAGAAGTCATGGCGGCGCTGTGTCGGACCCGTGCTGTGGCTGCCGAGAGCCATTTTCTGC
GAGTGTTTCTCTTCTTCAGGCCCTTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGSTAGTTCCAATGCCA
AGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGGAGCGGCACTCGGAGCTTCTACAGAAGGTGGAGC
CCCTACAGAAGGGTTCTCCAAAAATGTGGAATCCTTTGCATCTATGCTGAGACATTCTCTCTTACACAGATGG
GACCTGCAAAGGATAAACTGGTCATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTG
GAAAGTTTCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACCAGGGTCCGGTTGC
GGCTATTAGATCTTGAACTTACGTCTAGGTTCTGGGAGCAACAACAGATACAACGTACTAGAGGCTAATGCAG
TTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCGAAAGAAGACATCATGAAAAATTAAATGAACTTTGCTT
AGTGGATTGACTCCTTTGCTGAAGTCAGTTATTCATCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAA
TGAAGATATAATAAATAAAAGCTATAATTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1304

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQKGSFK
NVEFASMLRHSPLTQMGPADKLVIGRIFHIVENDLYIDFGGKFHCVCRREVDGEKYQKGRVRLRLDLELT
SRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHHEK

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FIGURE 1305

CCCAAATATATATTTAATCTTGTGGTTCAAATAAGCTTTTGGCTCACATCTAAGCACATCATAAAGAACGCTGTA
GAAGAGGTGACATGATGAGGCGGGAAGACGAGGAAGAGGAGGGAACAATGATGAAGGCAAAAGGGGACTTAGAGA
TGAAGGAGGAGGAAGAGATTAGTGAGACAGGAGAAGCTGGTTGGCCCTTTTGTGAGTGCTATGCCCACTCCAATGC
CCCACAACAAGGGCACCCGGTTCTCTGAGGCATGGGAATATTTCCACCTAGCTCCTGCTCGTGCTGGGCACCATC
CCAACCAAGTATGCCACCTGCCGCCTGTGTGGCAGGCAGGTGAGCCGTGGCCCTGGGGTCAACGTGGGCACCACTG
CACTGTGGAAGCATCTGAAAAGCATGCACAGAGAGGAGCTGGAGAAGAGTGGCCATGGTCAGGCTGGGCAGCGCC
AGGATCCAAGGCCCCACGGGCCCCAGCTCCCCACAGGCATTGAGGGTAACTGGGGTAGGCTCCTGGAGCAGGTGG
GCACCATGGCTTTGTGGGCCAGCCAAAGGGAAAAGGAGGTGCTTAGGAGGGAAAGGGCAGTGAATGGCGGGAGA
GGGCTGTGGAAGGAGGAGCGAGCCCTGGAGGAGGTGAAAGGGCCATCCTGGAGATGAAGTGAAGGTGAGGG
CTGAGAAGGAGGCATGCCAGCGGGAGAAAGAGCTGCCTGCAGCAGTACATCCCTTCCATTTTGTTTAAATTGGGC
TTGGAGAATCTATTCTGAAAACATTGACTCTAGACTTGTAGAAAAGAGCCATTTTAGTTTCAACTCAAATGTAAA
GCAAAGTAGTTTGGTGACATTTTGCTTTTATGTGAAATAGTGACAGTATGAGTTAATCTGAGCAGGTCTGAATT
GACCAAATGCTTATCTACGAGGTTCTTAGAGCTCTGCTGACCCTTGGCCGAACTCTAAAATGTACCTATTAAAG
ATAAATGCTTCTACCAAAGTAAACTCTGTGAGTTGTTTCAGGGCAGAATGTACCAGCCAGTCAGCGTTGTTTAA
CAAAATAATCAGATTTTTCCTAGCACTCGGTTTTGGTGGAGCTGACGATTTTGAGGGCTGAGGCTGGTTAGGTA
GCTGGAATGTGCCTATGTGACCAGCTCACTTGCAGACACCCTGCCGGAAGCAGAGCTTAATCTTCTAGGACTGA
GGTCTTAGCACATGTACTGGTGGAGTTTCCAGACCACCAAGTATGAATAAAAGCTTGTCTGTGTGACCCAGCAAG
TGAAGGACAAAGAACTGTGAGCCTCAGATCTTTGGACCTTTCCAATGCGTCTCTTCTCCTGTTATTGCTGCAA
TGATTTTCTTGCTTATATTAAAGTTGTTTCATCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1306

MRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPFVSAMPTPMPHNKGTRFSEAWEIFHLAPARAGHHPNQYA
TCRLCGRQVSRGPGVNVGTALWKHLKSMHREELEKSGHGQAGQRQDPRPHGPQLPTGIEGNWGRLLLEQVGTMAL
WASQREKEVLRRERAVEWRERAVEKRERALEEVERAILEMKWKVRAEKEACQREKELPAAVHPFHV

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FIGURE 1307

CACATTCCAGAAAAAATACCGCTTTACAAAACTCGCTCCGCATGACCCACAGAACACCCAAGGTCAAAAAGAG
TCCAAAGTTCAGAAAGAAAAGTTATCTGAGTAGACTGATGCTCGCAAACAGGCCTCCGTTCTCTGCAGCGAAGAG
CCTCATAAATTCCCCTTCACAAGGGGCTTTTTTCATCCTTAGGAGACCTGAGTCTCAAGAAAACCCCTTTTCTGGA
AGTATCTGCTCCTTCAGAACATTTTATAGAAAACCTAATATAAAAGACACAACCTGCAAGAAATGCCTTGGAAGA
AAATGTTTTTATGGAACACTAACATGCCAGAAGTCACCATCTCTGAAAACACAACTACAATCATCTCCTGA
GGCAGATTCCGCTGGGACTGCATTCAACTTAGGGCCAAGTGTAAACAACTGAGACAAAATGGGAATACAACAA
CGTGGGCACTGACCTGTCCCCGAGCCCAAAAGCTTCAATTACCCATTGCTCAGTTTGAAATTCAGCTAAACCCAG
CAGCTACAGTCCCTTATCCCCAACAAATGTGAGAAGGCTCATTCTCATGTTATCCGGACCTGAAGATGGAC
TGCTCTGGGGCCCATGTGCAAGTGACCTGTGCCAAGCTCATCTCCAGGACAGGCCACCTGATGAAGCTTCTCAGT
GGGCAGCAGGAAGTAAAGGCATCTGAGATAGAATGGGATACGGACCAATGGAAGACTGAGAACTACATTAATGAG
AGCACGGAAGCCCAGAGTGAACAGAAAGAGAAGTCGCTTGAGCTCACAAAAGAAGTTCAGGATACGGCTATACT
GACAACTCATCTTGGCATTAAATTGTGACTGAAATACTAATGATTTTGATTATACTTTTCTGCCTCATTGTGGTT
TAGGATTGGGTGTGTGTCTCTCTGAATGGCACTCAAATGTTTGCTGACTCCTACTCTGCGTGAAGTGGGGT
GTACAGCTATGGACTGATGCATCCCATCCCATCATCTTTCACGAGCAAAGCAGTCTCTTTTTTGACAGCTGAAGA
AGAACCTGTAGGGAATCCAGAAGGAGCATTATGAAGGTGTTACAAGCCCGGAAGAATTACACAAGCACTGAGCT
GACTGTTGAGCCGGAGGAGCCCTCAGACAGCAGTGGCATCAACTGTGTCAGGCTTTGGGAGTGAGCAGCTAGACAC
CAATGACGAGAGTGATGTTATCAGTGCACTAAGTTACATTTGCCATATTTCTCAGCAGTAAACCTAGATGTGGAA
TCAATGTTACTACCGTTCATTAACTGCCAACACAGGAAACAGCCTGGCAAAGATTCAAAGTGTAGGCCAAAAC
CGGCAAAAAGTGAATAGAGTCTCATGGGCCAATGAGCATCCAGAAAAGGCACTTCAAAGAGGTGGGAAGGCAG
AGCATCAGGAGGGAACAGGGTGCCAGGCATCTGTGGAGAACGCTGCCGAAGAAAAAGGCTCGGGAGTCCAGCC
CCAAGGGAGCTGGAACAGCCTCACACACAGCAGGGGCTGAGAAGTTAGCGGGAACGCCATCTACACCAAGCCT
TCGTTTCCAGCAAGAGCATAAGGCAGCAGTCTCTGTGCTGACACCTTCTCCAAGGGCGCGCCTTCTACCTCCAGC
CCTGCAAAAGCCCTACACAGGTGAGAGACAGATTGAAAGACAACACACACTATTTCCATTTTAGAAAGTGCAAA
GGCTAGAGTTACAAATATGAAGGCTTCTAAACCAATTTACATTCCAG

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FIGURE 1308

MTHRTPKVKKSPKFRKKSYSRLMLANRPFFSAAKSLINSPSQGAFSSLGDLSPQENPFLEVSAPSEHFIETTNI
KDTTARNALEENVFMENTNMPEVTISENTNYNHPPEADSAGTAFNLGPTVKQTETKWEYNNVGTDLSPEPKSFNY
PLLSLKFS

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FIGURE 1309

GGAAGCTCAGCAGTGTCCACTGTGCGCCATTCTTGGCCATAGAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAAAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAACCCCTCTCTGGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCCCTGGGACTACTGCTCCTC
TTGTATTCGCCACACACGTCTCAAGTCTTCTGCTCAGATATGGATCTCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTTCGATCGTTTTCGGAATAATTCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAGTAAAACTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCACCCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAGATGGTACAAGTAACCG
GGACAGCTTTTCGACTGGATGACGATGGCCCTATTCCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCTCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAAGAGAGTCACTCATTGAATTAAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAACTTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCTATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCAGAGCCAAGTGACTG
AACACGCATTCCCACTATATATCTACAGATGCATTCCATTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTTAATCTGAATAATTGTACATAAAATT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAAGTAACCTTTTTTCATACCTGCCAGTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTTTACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTGTTGATTTCTTC
ATTTTGTCTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGTCTTTAAGTGTAATATTTTAAAATTTGACATACCCTAATGTTAATAATAAAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1310

MEIRLDTLSASLGRSSTLNDNCNLEDKLAWYEGEAYMWHHWKPFPENPLWTCCLDFQIAQVGPWDYCSSCIRHTRLK
SSCSDMDLLHSWRSSSFGNFDRFRNNSLSKPDDSTEAGEGDP TNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVS LKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYD TDSL KIKGDIIDIICKTPMGMWTGMLNNKVGNFKFIYVDVISEEEAAPKKI
KANRRSNSKSKTLQEFLERIH LQEY TSTLLNGYETLED LKDIKESH LIELNIENPDDRRRLLSAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCYISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1311

GGGGCAGACGTGGGACGGGAAGGACGGCTGCCGGGACTGGCGCGCGGGGACACTGGGCCGACGCGTGGAGTAGCG
GGGAGAGCGGGGAAGCCTGAGGGGGCGGGGCCGGCGCAGGCCGTGGGTGCGGCACGAGGATGCCGGCGCGGGAC
AGCGCCCGTAGGCAGCCCCACGGGCAGGGCGCGCGGGCGGGGCGGGCCGGGCCAGAGGAGCTCCCGGC~~AT~~
GTCGCAAGGGCTCCCGGCCCGGCAGCGTCTGCAGAGGAGCGTCGCGGCGCCGGGAACCGCCGAGCCGCA
GCCGCAGCAGCAGAGCCCTGAGGATGATGACAGGAAGGTCCGAAGGAGAGAAAAAACCGAGTTGCTGCTCAGAG
AAGTCGGAAGAAGCAGACCCAGAAGGCTGACAAGCTCCATGAGGAATATGAGAGCCTGGAGCAAGAAAACACCAT
GCTGCGGAGAGAGATCGGGAAGCTGACAGAGGAGCTGAAGCACCTGACAGAGGCACTGAAGGAGCACGAGAAGAT
GTGCCCCGTGCTGCTCTGCCCTATGAACTTTGTGCCAGTGCTCCCGGCCGGACCCGTGTGGCCGGCTGCTTGCC
CCGAT~~G~~AAGCCGGGGACACTCCTCTGCCCAGCAAGGAGCCTTGGTCAATTTTCATACCTGGGAGGAAGGCTTTCC
TTCACAATTGTATACAGGGGGCACCTGTGGCCAGGCCTCCTCTGGGAGCTCCAGGACCAGCCAGCTGTGTTCCC
TGCAGACTGGGCTCAGCCCGACATCCAACAGGCGCCAACTCACAGAGCCCTTGTGCAGATCCAGCATGGAGGCC
ACCCTCAGGAGTGACTTCTCATCCACCCTGGCAGCTAGTAGGTTCTGCTGTTATGCAGAGCCATTTCTCTAGAA
TTTGATAATAAAGATGCTTATTGTCTCTCCCTTCTCCAGTTCTGGGAATTTACAGGCACAATACACTTCCTTTT
CCTGG

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FIGURE 1312

MSQGLPAAGSVLQRSVAAPGNQPQPQPQQSPEDDDRKVRREKNRVAAQRSRKKQTQKADKLHEEYESLEQENT
MLRREIGKLTEELKHLTEALKEHEKMCPLLLCPMNFVPVPPRPDPVAGCLPR

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FIGURE 1313

CACAAGGACATGGACGTGGACATCCTGGCCCTGGTCAATGACACCGTGGGGACCATGATGACCTGTGCCTATGAC
GACCCCTACTGCGAAGTTGGTGTATCATCGGAACCTGGCACCAATGCGTGTTACATGGAGGACATGAGCAACATT
GACCTGGTGGAGGGCGACGAGGGCAGGATGTGCATCAACACAGAGTGGGGGGCCTTCGGGGACGACGGGGCCCTG
GAGGACATTGCGACTGAGTTCGACAGGGAGCTGGACCTCGGCTCTCTCAACCCAGGAAAGCAACTGTTGAGAAG
ATGATCAGTGGCCTGTACCTGGGGGAGCTTGTGAGGCTTATCTTGCTGAAGATGGCCAAGGCTGGCCTCCTGTTT
GGTGGTGAGAAATCTTCAGCTCTCCACACTAAGGGCAAGATCGAAACACGGCACGTGGCTGCCATGGAGAAGTAA
AGAAGGCCTTGCTAATAACAAGAGAGATCCTGGTGGACCTGGGTCTGGAACCGTCTGAGGCTGACTGCATTGCCGT
CCAGCATGTCTGTACCATCGTCTCCTTCCGCTCGGCCAATCTCTGTGCAGCAGCTCTGGCGGCCATCCTGACACG
CCTCCGGGAGAAACAAGAAGGTGGAACGGCTCCGGACCACAGTGGGCATGGACGGCACCCCTCTACAAGATACACCC
TCAGTACCCAAAACGCCCTGCACAAGGTGGTGAGGAAACTGGTCCCAAGCTGTGATGTCCGCTTCTCCTGTGAGA
GAGTGGCAGCACCAAGGGGGCCGCCATGGTGACCGCGGTGGCCTCCCGCGTGCAGGCCCAGCGGAAGCAGATCGA
CAGGGTGTGGCTTTGTTCCAGCTGACCCGAGAGCAGCTCGTGGACGTGCAGGCCAAGATGCGGGCTGAGCTGGA
GTATGGGCTGAAGAAGAAGAGCCACGGGCTGGCCACGGTCAGGATGCTGCCACCTACGTCTGCGGGCTGCCGGA
CGGCACAGAGAAAGGAAAGTTTCTCGCCCTGGATCTTGGGGGAACCAACTCCGGGTCCTCCTGGTGAAGATCAG
AAGTGGACGGAGGTGAGTGCGAATGTACAACAAGATCTTCGCCATCCCCCTGGAGATCATGCAGGGCACTGGTGA
GGAGCTCTTTGATCACATTGTGTCAGTGCATCGCCGACTTCTGGACTACATGGGCCTCAAGGGAGCCTCCCTACC
TTTGGGCTTACATTCTCATTTCCTGTCAGGCAGATGAGCATTGACAAGGGAACACTCATAGGGTGGACCAAAGG
TTTCAAGGCCACTGACTGTGAAGGGGAGGACGTGGTGGACATGCTCAGGGAAGCCATCAAGAGGAGAAACGAGTT
TGACCTGGACATTGTTGCAGTCGTGAATGATACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCTAATTG
TGAGATTGGCCTGATTGCAGGAACAGGCAGCAACATGTGCTACATGGAGGACATGAGGAACATCGAGATGGTGGGA
GGGGGGTGAAGGGAAGATGTGCATCTGTTTTTCATTTTGCCTGTGGTTTGTGTTGCAGGTGTTGATAGTTGTTTT
AAGGATTGTTAGGTATAGGAAATCCAGTAAATTAATAAAAAAATTTTGATTTTCCAATAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1314

MDGTLYKIHPQYPKRLHKVVRKLVPSCDVRFLLESSESGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLTREQLVD
VQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRVLLVKIRSGRRSVRMYNKFIFAI
PLEIMQGTGEELFDHIVQCIADFLDYMGLKGASLPLGFTFSFPCRQMSIDKGTLLIGWTKGFKATDCEGEDVVDML
REAIKRRNEFDLDIVAVVNDTVGTMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGEGKMCICFSFCLW
FVLQVLIVLRIVRYRKSSKLIKKE

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FIGURE 1315

ACGCGGGGATTCTGTGTAATTCCTATCCACAGTCACTTCTGTTTCATTTTAAATGAAAACCTATTGCTGTTATTTT
CTATTATGAGTTAACGGTGATGTGTGTTTTTTAAATTTTGTATACTTGCTCTCACCCCTAAAATATACCTTAAGAG
ACTTTTCCCTGTTTTTCTTTCTGCTTTCCAAGACTCCAGGAAAAACAGCTTCCATGGCACATTTTGTACAGGGC
ACATCTAGAATGATTGCCGAGAAAGTTCTACGGAGCATAAAGAGTGTGCTGAACCATCAACAAGAAAGAACTTG
ATGAATTCCTTGAACAAAAGATAAGGTGTTTGGAAAAACAAAGAAAAGAGCTCCTGGAAGTTAACCAGCAATGG
GATCAGCAATTTAGAAGTATGAAAGAGTTATATGAAAGAAAGGTAGCAGAGCTGAAGACGAAACTGGACGCCGCG
GAAAGATTCCCTCAGCACGCGGGGAGAAGGATCCGCATCAGAGGCAGAGAAAGGACGACAGGCAGAGAGAGGACGAC
AGGCAGCGCGACCTGACCCGGGACCGGCTGCAGCGGGAGGAGAAGGAAAAGGAACGCCTAAATGAAGAATTACAT
GAATTGAAAGAAGAGAATAAACTTTTAAAGGGAAAAAATACTCTTGCGAACAAGGAAAAGGAACATTACGAATGT
GAAATAAAACGCCTCAATAAGGCTCTTCAGGATGCCTTGAATATCAAGTGTTCATTTTCCGAGGACTGTTTGAGG
AAGTCTCGAGTGGAATTTGCCATGAGGAGATGAGAACAGAAATGGAAGTTCTGAAGCAGCAGGTGCAAATATAC
GAAGAAGACTTCAAAAAGGAACGATCGGATCGAGAGAGACTTAATCAAGAGAAAGAGGAGCTACAGCAAATTAAT
GAAACTTCCCAATCCCAGTTGAACAGGCTGAATTTCCAGATAAAAGCTTGTGAGATGGAGAAAGAAAACTAGAA
AAGCAATTAAACAGATGTATTGCCACCCCTGTAAGTGCAGGCTTGTTTTCCACCTGCAAGATCCATGGGTACCA
ACAGGCCCTGGAGCTGTGCAGAAGCAACGGGAGCACCCACCAGACTGTCAGTGGTATGCTCTTGACCAGCTTCCG
CCAGATGTACAACACAAGGCAAAATGTTTTATCCTCAGTAAAGAAAGTCCATCCGTAGAGTACACACTAACAGAG
AGAGACAACAGGCAACGAGGAGCGTGGCTGAGGACCCTCTTCTTTGTTTATACTGAGGCTTGTTTCTGCCACAA
AGGCACATCATCTACCCTGTTATTTGTGCCCTGGTCTATGTTTTCTTTGGTATGAATACAGGAAAAGGCTTCTGAC
AGCTAAGATCCTGATCAAATTGGAGGAGCCAGTTATTATACAACCAAATACAACCTCCAGTTTCCTTGAAATGAG
ACTTGGCAGATGGATGATGCACGACTCCCTGAAAATCTCTTCAGCATATTGCTGTTGGATGCACAAAATGATTC
TATGATTTAGGCAACTCAGTGTGTTGCTGCAGGGATATTGTATGTTGATTTAAAGTGCATATGTGTGTGTGTGT
GTGTGTGTGTGTGTGTTTCTGGGGTAAAAATTTCTGCAGTTGTAAACGTTTAAACATTGCTCCCATTTCTTCTCC
ACAGGGCCTTAGTTCTTTAGCTATTTGACTACATATTGTTGACCTCAGTGATCCTAAACGTAGAATTGAAGAGGT
GTATATACCTCGTTAAATTAAATAAGTGGTTCAATCTGAATAAGATGGTTAATTGGAAGCTATTCTTACAGAGA
TCATTTCTTTAAGATGGTGAGAAATTGTGCGCCTGCATCACAAGACTTGATTATGAAAGATAAAGTCTTGGGCTG
GGTGCAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTTGAGGCCAGGAGTT
CTAGACCAGCCTGGCCAGCATGGTGAAACCCCATCTCTACTATAAATACAAAAATTAGCCAGGCTCGTGGCACAC
ACCTATAAACCCAGCTACTCAGGAGGCTTGAGGCGGGAGGATCACTTGAGCCCAGGGAGGCAGAGGTTGCTGTAA
GTTGAGATCGCCACTGCACTCCAGCCTGGGAAATAGAGTGAGCAAGACTCAGTGCCCCCTACCCACCCACTCCAC
ACCACCAAAAAAAAAAAAAAAAAAAAAAGGAAGACAAAGTCTGATGGGATGATGATGGCTATATGGCTATGCTG
TGTCATATATACTTACAGAAATATTTAGACATATGATTATAGTTAAATCTGTGTTTTTCTTCTCTATGGAT
TTGATTAATTTTAAATGAAAACTTAATTCTGACTCCTCAAGCCAATTAATGAAAATGGAATTTATTTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1316

MAHFVQGTSRMIAAESSTEHECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAEL
KTKLDAAERFLSTREKDPHQQRKDDRQREDDRQRDLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANK
EKEHYECEIKRLNKALQDALNIKCSFSEDCLRKSRVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEK
EELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDCQW
YALDQLPPDVQHKANGLSSVKKVHP

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FIGURE 1317

CGGCCCCGCTGGAGAGGAAGCCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCC
CGGGCTCCGGTGGGGTCCCCCACC CGGCCCTCGGGTCCCCCGCCCCCTGCTCCCTGCCCATCCAGCCCCACGCGA
CCCTCTCGCGCGGGAGGGGCGGGTCTCGACGGCTACGGGAAGGTGCCAGCCCCGCCCGGATGGGCATCGTGGA
GCCGGGTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGA
CCCCGAGCACC GCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCCGCGGGGCGGCAGCCTGGG
GTCTCCCTACCCGGGGGCGCCTTGGTGCCCGCCCCGCGGAGCCGCTTCCCTGGAGCCTACGCCTACCCGCCGCG
ACCCAGCGCGCCGGCTTCCCCGGCGCGGGCGAGTCTTCCCGCGCCCGCGGACGCCGAGGGCTACCAGCCGGG
CGAGGGGTACGCCGCCCGGACCCGCGCGCGGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCCGG
ACTGGAGGTGTGCGGGAACTGAGGGTTCGCGCTCAACAACCACTGTTGTGGTCCAAGTTTAAATCAGCACCAGAC
AGAGATGATCATCACCAGCAGGGACGGCGGATGTTCCATTCTGTCAATTTACTGTGGCCGGGCTGGAGCCCAC
CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGAGCGGCAAGTGGGT
GCAGTGTGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCTGTACGTCCACCCGGACTCCCCAACACAGGAGC
GCACTGGATGCGCCAGGAAGTTTCATTTGGGAACTAAAGCTCACAACAACAAGGGGGCGTCCAACAATGTGAC
CCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC
AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTTATTGCCGTGACTGCCTA
CCAGAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC
CATGTACACATCTGTTGACACCAGCATCCCTCCCGCCTGGACCCAACTGTCAATTCCTTGGGGGAGATCACTA
CTCTCCTCTCCTACCCAACCACTATCTGTTCAGCGCGCTTCTACCCGACCTTCTGGCCAGGCGAAGGATGT
GGTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAA
GCCTGCATTCTTGCCCTCTGCCCCTGGGCCCCACCATGTCCTACTACCGAGGCCAGGAGTCTGGCACCTGGAGC
TGGCTGGCCTGTGGCACCCCACTACCTCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCC
CATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGAT
TGCCCCCATCCGGCCGGAATCCAGTGATTGAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTA
TCCTTCCAGTGGTGACAGCTCCTCCCTGCTGGGGCCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTA
TAACTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTATTAGGTTGGAGGACACCGAC
TAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGG
GAAGTGGGGCTCAAGAAGGATTTGGGGTTACCAGATGCTTCTGGCCACGATGAAACCTGAGAGGGGTGTCC
CCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA
AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTGCATCTAGTGGGTGGGAGGGGTGAGGTGTGGGACATG
GGAGCAGGAGACTCCACTTTCTCCTTTGTACAGTAACTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGA
TCCAAAAGAAACAAATACACGTATGTTATAACCATCAGCCCGCCAGGGTCAGGGAAAGGACTACCTGACTTTGG
ACAGCTGGCCTGGGCTCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGCTGGAAAGGGGGGAATGGCCC
ACATCTCAAGAAGCAAGATATGTTTGTGGTGGTGTGTGTGGGTGTGTGTTTTCTTTTTCTTTTCTTTTAT
TTTTTTGAATGGGGGAGGCTATTATTGACTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCATCACTTTT
TGAAAATAAACATAAAACTGTTAAAAA

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FIGURE 1318

MGIVEPGCGDMLTGTEPMFGSDEGRAPGADPQHRYFYYPEPGAQDADERGGGSLGSPYPGGALVPAPP SRFLGAY
AYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYAAPDPRAGLYPGPREDYALPAGLEVSGKLRVALNNHLLWSKF
NQHQTEMIITKQGRMFPLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMFGNRLYVHPDS
PNTGAHWMRQEVSFGLKLTNNKGASNNVTQMIVLQSLHKYQPR LHIVEVNDGEPEAACNASNTHIFTFQETQFI
AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPPGPNCQFLGGDHYSPLLPNQYPVPSRFYPDLP
QAKDVVPQAYWLGAPRDHSYEAEFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMGPASWFRP
MRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSD SGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEA
EGQFYNYFPN

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FIGURE 1319

ACCGTCTTCCGCCGCACGTGGATTGAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTGCGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTGAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACGAAATACACAGAAATGGACTACGCCCAGCTGGTAACAAAGCAGCTTTCAGTGTGAGCCTGGATCCAGG
GCCCCTGGAGCAGTTCCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCACCGCCCTCAAGAGAGG
TGTGGTGACTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCCT
GAAGCTTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCTCT
GGAGAGAGCAGCTTTTTATTTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAAACTAGTTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAACTCTGTCCC

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FIGURE 1320

MPKSKRDKKVS LTKTAKKGLELKQNLIEELRKCVD TYKYLFIFSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAAFTVSLDPGP LEQFPHSME
PQLRQLGLPTALKRGVVTLLSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQ QMGDDL PES
ASESTEE SDEDD

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FIGURE 1321A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCTGAGGTGACAGCGCCTGCAACTGAAATTCAGCAGCGGGAGAAGATCGACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCCTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCICCCCTTTCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAA
AACATATCCGAGGGTGTCTGTACTTCCAGGTATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCACCTGTAACAGAGGAAGTTGAGTGATACAGACAACCT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATCTGCAAGCAGACTGCGCACATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACCTCA
CTCTGATTTCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAAACCT
ATCATCAGGATCCAAAACCTGCCTGAAGAAATTACAATAAACCTACAAAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCCTCTGCCGGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCAGTATCTCAGCTGAACCAATTGTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTCTTAAGTTACAATCTAAGCAAGACCGTGAGACAACATAATG
AAAATGAGAGTACTTCTGAATCAGCATTGTAGAATACTTACATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGG
ATTTTATATTACTTCTGTTTATATTGGTAAAATAAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAATAAAAT
ATATTAAGATCCCATTTCAAGTGTCCTGAATGAGATTTTATTGCTAGTGGATACCACACATTTAAAGCGGTTTG
GGTTATGGAAAAGTAAGGATGATAATCACAGTAAAAGGAGTCATGCTATTCTTTCTTCTGGGTCCTTTCAGATT
ATCTTCAAGAGATTGAGACCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAACTACACAATCCTGTTTACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTTCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTCTTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCCCTGCAGAAGCAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTGTTC
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACATAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTGTAACGAAGTCACATTTTTAGTAGCTTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCTAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACTTCCAATTCATTGGAGAAGTGGT
TTCCCTCGTCATGTAATAAAGACCAACGGGAAGATATTCGAGAGCTCATCTTGAACTTCATTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTCTCTAAGATTACTGGAAAGCCCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAATAACTTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAATAATTTTATAAATATTTTATATTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATCTATT
CTTTGCGAGCTCAAGCATGCAGTATGAATACTGTGATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1321B

TGCCATTACGGCATCCCTTCTGTATGTAACAAAAAGACATTTCATAATGTTAGGAAGATGATAAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTCTTTTGATGTC
ATAATGTGAGTATCTTATAATTTAGTTTCATTGTTCAGGGTAAAAATTTGAAACAAAAAATTTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCACCTCACATTATCACGGAAT
TTAIGTATAGTTTCTCTAATATAGAAGATAAAATTTGGTGTCTCATAACTTTAACAAGAAAAACCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACCTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTAAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTTATATTATTAATATATTTGTTGTTGGATATTTATATAAAGATGGCTAT
AATTACATATTTTATTCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTGTTTGTATGTTTTTCAAAGATATCACT
GTCCTTTTATCATGTTTTGAAGATTGTTTAAATTCATTTTCCTAAATTAATGTGCAAGTAATGTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1322

MDKRKLGRRPSSSEIITEGKRKKSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLOWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILT NVLGT ELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSEGRSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKT KRRLRNNLPDSQYCTSLDKSTEQT KQEDDSTISTEFERPSENYHQDPKLPEEITTKPTKSDFT
KLSSLNSQELT LSNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENELNTIEKPILRGHNEGNQSLISAEP IV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLEPLITCESVQMSSELCPYNPVMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKKMCKRPCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFP RHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1323

GGGGACTTCCGGAGACCTCACACAAGATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGA
TTGTGGAAGAGGAGGAAACTAAAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCAGT
TGGGATGGACAAAACCCACCAAGATTGAGATTGAAGCTATTCCCTTTGGCCTTACAAGGTCGTGATATCATTGGGC
TTGCAGAACTGGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGC
GTTTGTGTTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTGAGATCTCAGAGCAGTTTGAAGCCCTGGGGT
CCTCTATTGGAGTGCAGAGTGTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCAAAAA
AACCACATATAATAATAGCAACTCCTGGTCGACTGATTGACCACTTGGAAAATACGAAAGGTTTCAACTTGAGAG
CTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAAGACAGAGGTTGACAAGATCC
TCAAAGTGATTCTCGAGATCGGAAAACATTCTCTTCTCTGCCACCATGACCAAGAAGGTTCAAAAACTTCAGC
GAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATAACAGACAGTTGAAAAATTACAGCAATATT
ATATTTTTATTCCCTCTAAATTCAAGGATACCTACCTGGTTTTATATTCTAAATGAATTGGCTGGAAACTCCTTTA
TGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCTTTGCTACTGCGAAATCTTGGCTTCACTGCCATCC
CCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAGGATCCCTTAATAAGTTTAAAGCCAAGGCCCGTCCATTC
TTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCTTA
CCCATTTCAAGGATTACATCCATCGAGTAGGTGGAACAGCTAGAGCTGGGCGCTCCGGAAGGCTATTACTTTTG
TCACACAGTATGATGTGGAACCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACAC
AGGATGATGAGGTTATGATGCTGACAGAACGCGTCGCTGAAGCCCAAAGGTTTGGCCGAATGGAGTTAAGGGAGC
ATGGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTGAGGA
ACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTTAATCACTTTTATGAAGGCTCGAGTTCTGCTGTT
CTGTAAAAGAAAATTGGAGAATGAAACCTGCTCCAACAGAGATCATGAGACTGAAATTGGTCAGAATTGTGTCCA
GAATGTGCTCAGCTAATTCAGTATTCTTCCCATTTCTGGGTTGGAGTTTACTGCAGAGTAATTCTTACAGTGCTG
ATGTCAAGACTGTTACTGTTCTTCGACTTTGATTCTTGTCTCATGACATGAGTAGGGTGTGCTCTTCTGTCACTT
CACACAGACCTTTTGCCTTTTTTAGCTGCAAGTCAAGGACTAGGTTGATGATGCCCATGACCTGTAATTGTAAAG
AAGCTTGACATCTGCAAATGATATTTAAACCATCTTGGCTTGTGCTTTATTCAAACATAATGTGAAACAATAAAT
TTAAATATTATTTTAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1324

MAAPEEHDSPTASQPIVEEEETKTFKDLGVTDVLCACDQLGWTKPTKIQIEAIPALQGRDIIGLAETGSGKT
GAFALPILNALLETPQRLFALVLTPTRELAFQISEQFEALGSSIGVQSAVIVGGIDSMSQSLALAKKPHIIIATP
GRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPDRKTFLFSATMTKKVQKLQRAALKNPVK
CAVSSKYQTVEKLQYYIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTQRTALLRLNLGFTAIPLHGQMSQS
KRLGSLNKFKAARSILLATDVASRGLDIPHVDVVVNFDPHHSKDYIHRVGRTARAGRSKAITFVTQYDVLEF
QRIEHLIGKKLPGFPTQDDEVMLTERVAEAQRFARMELREHGEKKKRSREDAGDNDDEGAIGVRNKVAGGKMK
KRKGR

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FIGURE 1325

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTTCGGTCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTTCAGTGTGTGCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGTTTTG
TGACATGTCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCTCGGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCAATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTTCAAGCTGGCCGCCTTCATGAAAAAATTTTGGAGATGCATCAGCTATTGAAACACATCCTAA
CCAGGATATACTCTGTTCTTGAAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAGAAATCTGTTGCTTTT
CTAACAAATTCGCGTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTCTGGAGTCATGGGAACACACAGCACAGAGGTAGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCCTGGGTTTACGCGGCTGTTGATTCAAGGTCAACATTGACCATGGAGGAGT
GGTTTAAGAGTGCCAGGCCAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCTTCTCTTTTAAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTACCATTCTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1326

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFISIYVMGLVLEWIKNNGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

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FIGURE 1327

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCCGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGSCAGAGAATGGAAAAAATGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGGGAGC
GGGAAGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCACTAGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACACCCTTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAACTGGCAGTTCAAAACTAGTACAGAAAGTTGGATTTTTTGAATTTTGGCCT
GTGCTTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTGGACCT
TCTTTGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTGTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTATTGGTGTCTGTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGTCTGGATGTTTGAAGGTTGGTCTGTGTCATGGTGTGTACTTTCATCTATCTATCATTAACCTCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACATAAAGTAGAGAAAAGTTTTAA
ACTGCAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCTTTTC
CAACCTGTATCAATTTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTGCAGTACATACTTTTTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTTCAGC
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAAGGCCACATGATACAATTAGAGAATTCAC
CGCACAAAAAAGTTCTTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTCAAAATGATTGCTTTGTTTTT
CTAAGTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTATCATGTTACAATTTAATA
TTCCATCCTGCCAACCCCTTCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCCTCTGGGG
AAATTGATCTTTAAATTTTGGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGATTTAGAAATGAAGTCTTGAAAAAATCTTATAAAGACATCTTTAATCATTCCAAATTTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTG
TATCTGTGTTAAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAAGTTGTTCAATTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTCTTAAAAA

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FIGURE 1328

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIWLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEEKTK

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FIGURE 1329

CTGTGAGTGACACACGCTGAGTGGGGTGAAGGGAAATGCTGGTGAATTCATTTGAGGTGTGGGTGCTGTAG
TCACTCTGTCTCTTGCCATTGCCAAGCACAAAGCAATCTTCCTTCACCAAAAGTTGTTACCCAAGGGGAACATTGT
CCCAAGCTGTTGACGCTCTCTATATCAAAGCAGCATGGCTCAAAGCAACGATTCCAGAAGACCGCATAAAAAATA
TACGATTATTAAGAAAGAAAACAAAAAGCAGTTTATGAAAACTGTCAATTTCAAGAACAGCTTCTGTCTCTCT
TCATGGAAGACGTTTTTGGTCAACTGCAATTGCAAGGCTGCAAGAAAATACGCTTTGTGGAGGACTTTCATAGCC
TTAGGCAGAAATTGAGCCACTGTATTTCCCTGTGCTTCATCAGCTAGAGAGATGAAATCCATTACCAGGATGAAAA
GAATATTTTATAGGATTGGAAACAAAGGAATCTACAAAGCCATCAGTGAAGTGGATATTCTTCTTCTGGATTA
AAAAATTATTGGAAAGCAGTCAGTAAACCAAAGCCAAGTACATTGATTTTACAGTTATTTGAAATACAATAAGA
ACTGCTAGAAATATGTTTATAACAGTCTATTTCTTTTAAAACTTTTAAACATAATACTGACGGCATGTTAGGTG
ATTCAGAATAGACAAGAAGGATTTAGTAAATTAACGTTTTGGATATAAGTTGTCATAATTTGCACATTTTCTGT
GTTTTCAAATAATGTTTCCATTCTGAACATGTTTGTCAATCACAAGTACATTGTGTCACTTAATTTAAAGTAT
GTAACCTGAATTAACCTCGTGTAAATTTGTGTGTGGAGTGGGATGTGGGGGTGGAGGGGGAATGACAGATTTCT
GGAATGCAATGTAATGTTACTGAGACTTAAATAGATGTTATGTATATGATTGTCTGTTAAGTGTGTTGAAAATTG
TTAATTATGCCAGTGTGAAGTCTAGTACTTAAACACATTTTGATTTTAATTAAATAAATTGGGTTTCCTTCTC

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FIGURE 1330

MLVNFILRCGLLLVTLSLAIAKHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDRIKNIRLLKKKTKKQF
MKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSRLRQKLSHCISCASSAREMKSITRMKRIFYRIGNKGIY
KAISELDILLSWIKKLLESSQ

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FIGURE 1331

TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAAGTTGCTCGAGTTAGAATTGTCTGCAATGG
CCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCT
TGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATA
TCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCTGCTCATTGGGG
AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAG
AAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGGCCCTTCCTGGCCAGGCTCAGCA
ACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAG
TGAAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATG
CCTGCATTGACCAGAGCAAAGCTGAAAAATGAATAACTAACCCCTTTCCCTGCTAGAAATAACAATTAGATGC
CCCAAAGCGATTTTT

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FIGURE 1332

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1333

TTTACTTCCTGCGTCCCCGGACGCCGTATGTGGAAAGGCGAACCCCTGAGTGGAGGATGTTCCCGCTGCCTAAAGA
ATGATTGACTGTGACTGCACTTTTGTGAGATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAA
GAAGACAGCCTGGAAGACTCAAACCTTTTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGAGCGACAGGCGAA
CCACCTAGTGCCGTCGAAGAAGAAGGAATACCTAACGAAACAGACATAGAAATCATGCCAGAAATCCCGGAAACT
CTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTTTATT
CTGAACCTACATCATGCCCGTTTCACTACGATGGGAGACAGAGCATCTGCGTGAAGAGCAGAGAATTGAATCTAGAA
GGAACGAATCTAGACAAACTTGCAATGGGCCTCAACATGACAAAATACTCAGTCCGTTACTACCTGTGGAAGGA
CCCAATTTGCTGATTTACACCCAGAGGCCGTTTCGCTGTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAA
AAACCTACAAGGCAGACCATCATGACTACGGAGACACTGAAGAAAATTCACATTGATAGGCAGTTTTTCAGCGAT
GTGATTGCAGATACCATTAAAGGAGTTGCAAGATTTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAG
AGGGAAAACAAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAA
AAACAGCTAATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAAATGAGTATATTGCTAACCTCAAG
GACCAACTGCAAGAGATGAAGGCAAAATCCAATTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATT
GCCCAGACCCAGAAAAAGTGTAACAGAACAGAGGAACTCTTGGTGGAAAGATTTTGAGAAACTCAGGATGAAAACC
GAAGAAGAGGGCCCGACTCATAACAGAGATTGAAATGTTTCCTTAGAAAGGAGCAGCAGAAACTTGAGGAGAGGCTG
GAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAG
GCCAGTGTCTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTTCATCATTGAAGATCGT
ATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAAACAGGATCTCTTGGAAATTAAGAGCGTTATAAAGCTCCAGGCC
TGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGAT
TCAAAAGGCAAAGGTAAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAGTGAACCAAGTTCTCTTTTGTGTTTCTG
CTGGTATTCTGGAGGTGGGAAGGACTTGGAGAGAGTTAAGAAACACCTGGTACCTCAAAGATGACTCATCTACAG
GTTGTTTCTTATTGAGACTTTCCAGGGAAGCCTGATTTCACTTTGCCTGTTAATTTCACTCTGCCTGTTAGGTG
GGTTTTCAAACCTGATTTAGGATTACACATTGACTTAGGGCTTCCTCATACCTTGCTGGGAAGAAGTTCTAG
TAGTCTGTGAAGATTCACTTCTTCTGCTCTTTCTCAGCAGAACAAAGGAGTTCACTGGCTTAGCTACAGTGACG
CATTGAACTTGAGTAATTCCTGTAATGTCAGATTTTGATTTTACCCAATTTGTCTGTAGTGAAGAACTCTTAT
GAGCAAAGTATTTCAGTAGGAATTACAATATGATGTTATTAGCTGTCCAGCATAATATATACACAGCAAAGTTT
AATAAATGTTGGTTCCTGCCTGCCTTTTAA

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FIGURE 1334

MEEDSLEDNLFPKVHSEMTVSATGEPPSAVEEEGIPNETDIEIMPEIPETLEPLSLPDVLRISAVLEDTTDQL
FILNYIMPVQYDGRQSIKVSRELNLEGTNLDKAMGLNMTKILSPLLVEGPNLPDFTPRGRFAVEFNKMQDLV
FKKPTRQTIMTTETLKKIHIDRQFFSDVIADTIKELQDSATYNSLLQALSKERENKMHFYDIIAREEKGRKQIIS
LQKQLINVKKEWQFEVQSQNEYIANLKDQLQEMKAKSNLENRYMKTNTTELQIAQTQKKCNRTTEELLVEDFEKLRM
KTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMKQNELNALKATKASVLAHLQDLAKMIREYEQVIIE
DRIEKERSKKKVKQDLLELKSIVKLQAWWRGTMIIRREIGGFKMPKDKVDSKDSKGGKGGKDKRRGKKK

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FIGURE 1335

GTCATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGAATGACCTGGGAGACAAATAC
AACAGC**AT**CGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCCAG
GGGGTGCAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTTCGGGAC
TTCCAGACACTGGAAA**ACT**GGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTCCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCCCTGAACATTCCGAA**ACT**GTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGA**ACT**CTGCTCCGGA
AACCAGGTT**CGT**GGCTATCCCACTCTTCTCTGGTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTCGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCCGGTGTGGCAGCTGAGCCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCATTGTAAGACTCTG
GCTCCTACTTGGGAGGA**ACT**CTCTAAAAAGGAATTCCCTGGTCTGGCGGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGCTCCTGAGCCAAGCGAAAGACGAA
CTTT**AG**GAACACAGTTGGAGGTCACCTCTCCTGCCAGCTCCCGCACCTGCGTTTAGGAGTTCAGTCCACAGA
GGCCACTGGGTTCCCA**GT**GGTGGCTGTTTCAGAAAGCAGAACTACTAAGCGTGAGGTATCTTCTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAATGTGTA**ACT**CATGGTCACTGTGTAAACATTTTCAGTG
GCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCTTTGAGACTAAAATAGCGTTGAGGGAA
ATGAAATTGCTG**ACT**ATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAGCACATCCAAAGCATAGTTT
ACCTGCCACGAGTTCTGGAAGGTGGCCTTGTGGCAGTATTGACGTTCTCTGATCTTAAGGTCACAGTTGACT
CAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTCTGGAAGATACCTTCACGGC
CGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGTGATGAAAGCAGCGTTACTT
CTGACCGTGCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTGATACTTGTCAAATCAGTTACTGTTCA
GGGGATCCTTCTGTTTCTCACGGGGTGAACATGTCTTTAGTTCTCATGTTAACACGAAGCCAGAGCCACATG
AACTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCATTCTCAGTATCTCATTAACT
CATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTTTCCAGGCCTGGGTATCCAG
GGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATTCTGTTTCTCAGTAGTCCTTT
TAGAGGCTTGTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAAGAATGGGATGCATTTGATCT
CAAGACCAAAGACAGATGTCA**GT**GGGCTGCTCTGGCCCTGGTGTGCACGGCTGTGGCAGCTGTTGATGCCAGTGT
CCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAGCACATACAGGCTTAAGCTCT
AAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCTTTGCATCCAACACTCTTCAC
CCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAGGAATCTTAGAAACAAGACCA
CTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGCCTTAAAGGAAATCTTTATTA
ATCACGTATGGTTCACAGATAATTCTTTTTTAAAAAAACCCAACTCCTAGAGAAGCACAACTGTCAAGAGTCT
TGACACACA**ACT**TCAGCTTTGCATCACGAGTCTTGATTCCAAGAAAATCAAAGTGGTACAATTTGTTTGTTTA
CACTATGATACTTTCTAAATAAACTCTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAC

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FIGURE 1336

MEDAKVYVAKVDCTAHSDVCSAQGVRGYPTLKLFPKPGQEAVKYQGPRDFQTLENWMLQTLNEEPVTPEPEVEPPS
APELKQGLYELSASNFEHVAQGDHFIKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQ
VRGYPTLLWFRDGKKVDQYKGKRDLESLREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
DTIAEGITFIKFYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICKYSVRGYPTLLLFRGGKKV
SEHSGGRDLDLHFRVLSQAKDEL